



# Selected Worldwide Marine Weather Broadcasts



PB99-113961

Silver Spring, MD  
September 1998

## CHANGE NOTICE CHANGE 1

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Weather Service

U.S. DEPARTMENT OF THE NAVY  
Naval Oceanography Command



**The date of this change is November 1, 1998. Please insert the new pages as indicated.**

**Part 1, Worldwide Marine Radio**

**Remove Old Page**

Cover Page	Cover Page
i - vii	i - vii
xxi - xxiv	xx - xxiii
I-2 - I-4	I-1 - I-3
II-3	II-3 - II-4
 SECTION III	After II-8 Insert Thailand map
IV-13 - IV14	Section III
IV-17 - IV-29	IV-13 - IV14
V-3	IV-17 - IV-29
V-7	V-3 - V-4
VI-1	V-7 -V-8
VI-7	VI-1 - VI-2
 VI-17 - A-2	After VI-6 Insert (2) Germany maps
	VI-7,VI-8
	After VI-8 Insert Iceland map
	After VI-12 Insert Ireland map
	After VI-13 Insert (2) Netherlands maps
	After VI-16 Insert Portugal and Azores map
	VI-17 - A-2

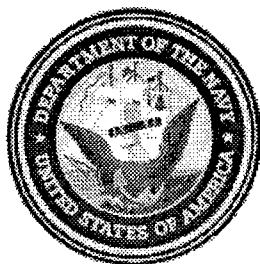
**New Page Insert**





# Selected Worldwide Marine Weather Broadcasts

Silver Spring, MD  
September 1998



**U.S. DEPARTMENT OF COMMERCE**  
William M. Daley, Secretary

National Oceanic and Atmospheric Administration  
Dr. D. James Baker, Under Secretary

National Weather Service  
John J. Kelly Jr., Assistant Administrator

**U.S. DEPARTMENT OF THE NAVY**  
John H. Dalton, Secretary









## INTRODUCTION

The Selected Worldwide Marine Weather Broadcasts (SWMWB) publication contains information and schedules of marine weather broadcasts made primarily in the English language. Foreign broadcast data were obtained from the World Meteorological Organization (WMO) Publication Weather Reporting WMO/OMM No. 9, Volume D, Information for Shipping; the National Oceanic and Atmospheric Administration (NOAA) publication Worldwide Marine Radiofacsimile Broadcast Schedules; information supplied by sources from other countries; and participating shipboard Radio Officers. References prior to 1990 from WMO Publication No. 9, were not included in this document.

This publication is supplied by the United States Government for use by the maritime community. Comments, suggestions or information from ships' officers relative to its contents are greatly appreciated and should be forwarded as indicated below:

### PART 1

Marine Telecom Program Manager  
National Weather Service /NOAA  
W/OS0151, SSMC2  
1325 East-West Highway  
Silver Spring, MD 20910 USA  
Telephone (301) 713-1931/FTS 933-1931  
Fax (301) 713-0285/FTS 933-0285

### PART 2

Port Meteorological Officer  
National Weather Service/NOAA  
1620 Gill Road  
Dickinson, TX 77539-3409 USA  
Telephone (713) 534-2640/  
  FTS 731-2640  
  Fax (713) 534-2157/FTS 731-2157

## ORGANIZATION OF THIS PUBLICATION

Part 1 contains details of radiotelephone, radiotelegraph, and radioteleprinter transmissions. It is arranged by regions with countries listed in alphabetical order within the regions. Listings in Part 1 consist of the station name followed by the radio call sign in parentheses, broadcast times, radio frequencies, class of emission, power, content and language. The date of the last update for the station is listed in parentheses below the station name. All times are in Universal Time Coordinated (UTC).

Part 2 contains details of radiofacsimile transmissions and is a reprint of the most current Worldwide Marine Radiofacsimile Broadcast Schedules. For ease of use, all stations are listed initially by WMO region and then country and location in alphabetical order. Many of the schedules contained in Part 2 were obtained from the WMO publication, Weather Reporting WMO/OMM No. 9, Volume C, Meteorological Messages. Wherever possible, the schedules are dated with the date of the latest change available. Remember, **ONLY YOU KNOW WHAT THE WEATHER IS AT YOUR POSITION**. Without your reports, we in the weather community can't help you or others. Please report the weather to the nearest collection point at 0000, 0600, 1200, 1800 UTC.

## **EXPLANATORY NOTES:**

### **Class of Emission**

#### Amplitude Modulation

- A1A - Telegraphy without the use of a modulating audio frequency (by on-off keying)
- A2A - Telegraphy by the on-off keying of an amplitude-modulating audio frequency or by the on-off keying of the modulated emission (special case:  
an unkeyed emission amplitude modulated)
- A3E - Telephony, double sideband
- R3E - Telephony, single sideband, reduced carrier
- H3E - Telephony, single sideband, full carrier
- J3E - Telephony, single sideband, suppressed carrier
- B9W - Combination of telephony and telegraphy (two independent sidebands)

#### Frequency Modulation

- F1B - Telegraphy by frequency shift keying without the use of a modulating audio frequency,  
one of two frequencies being emitted at any instant
- F3E - Telephony, by direct frequency modulation of the carrier

- SafetyNet - High Seas Broadcast (See SafetyNet section in this publication)
- NAVTEX - Coastal Broadcast (See NAVTEX section in this publication)
- SITOR - Simplex Teletype Over Radio

### **Broadcast Content**

- A - Analysis
- F - Forecast
- I - Ice Report (shore ice)
- IB - International Iceberg Bulletin
- P - Prognosis
- S - Synopsis
- W - Warning
- G - Gulfstream Analysis

# **GLOBAL MARITIME DISTRESS & SAFETY SYSTEM**

## **(GMDSS)**

Traditionally, meteorological forecasts and warnings have been broadcast to maritime users by coastal radio stations on MF, HF, and VHF using a number of formats, including plain language, coded forms and facsimile. These broadcasts are usually made at scheduled times and disseminated by morse code and voice. Such communications often depend upon the ship's radio operator and can be unreliable because of the inherent problems associated with atmospheric effects upon HF communications. Plain language broadcasts are made in English and the national language of the issuing nation. Since February 1, 1992, new technology communications using commercial satellites operated by INMARSAT (SafetyNet) and medium frequency, direct-printing radioteletype (NAVTEX) have been providing a quicker, simpler and more efficient means of disseminating critical safety, distress and warning information to the high seas and coastal mariner operations on the world's oceans. These advanced technology systems have been introduced under the provisions of the Global Maritime Distress and Safety System (GMDSS) to provide Maritime Safety Information (MSI) broadcasts to the shipping community.

The GMDSS is comprised of existing maritime communication and distress systems. It was developed by the International Maritime Organization (IMO) and incorporated into the 1988 amendments to the International Convention for the Safety of Life at Sea (SOLAS) of 1974 as a requirement for ships to which the Convention applies.

Alphanumeric marine bulletins for high seas and coastal areas of the Atlantic and Pacific assigned to the United States are prepared by the National Weather Service. Weather bulletins prepared by other national meteorological services, for their assigned areas of responsibility, are also similarly disseminated under the provisions of the GMDSS. Weather facsimile products do not enjoy the benefits of the new satellite-based technology but will continue to be available over existing HF radio broadcasts.

Using geostationary satellites positioned over the Pacific, Atlantic and Indian Ocean areas, INMARSAT offers numerous advantages over terrestrial-based radio communications. Coverage extends as far north and as far south as 70 degrees latitude, providing 24-hour communication services that are not affected by poor weather, terrestrial line of sight obstructions or the requirement for a radio operator. High seas meteorological warnings and forecasts can be sent to many ships at once using the satellites' group broadcast capabilities (SafetyNet). For ships operating in coastal areas, marine safety information is disseminated using the international NAVTEX system. In the United States, the U. S. Coast Guard operates the shore-based NAVTEX transmitting equipment which has a nominal range of 200 nautical miles.

An added benefit of the satellite system is the increasing number and quality of synoptic observations received from high seas shipping. Shipboard INMARSAT equipment can reliably and quickly transmit observations to participating national meteorological services.

# SAFETYNET

## **NAVIGATIONAL WARNING SYSTEM (SafetyNet)**

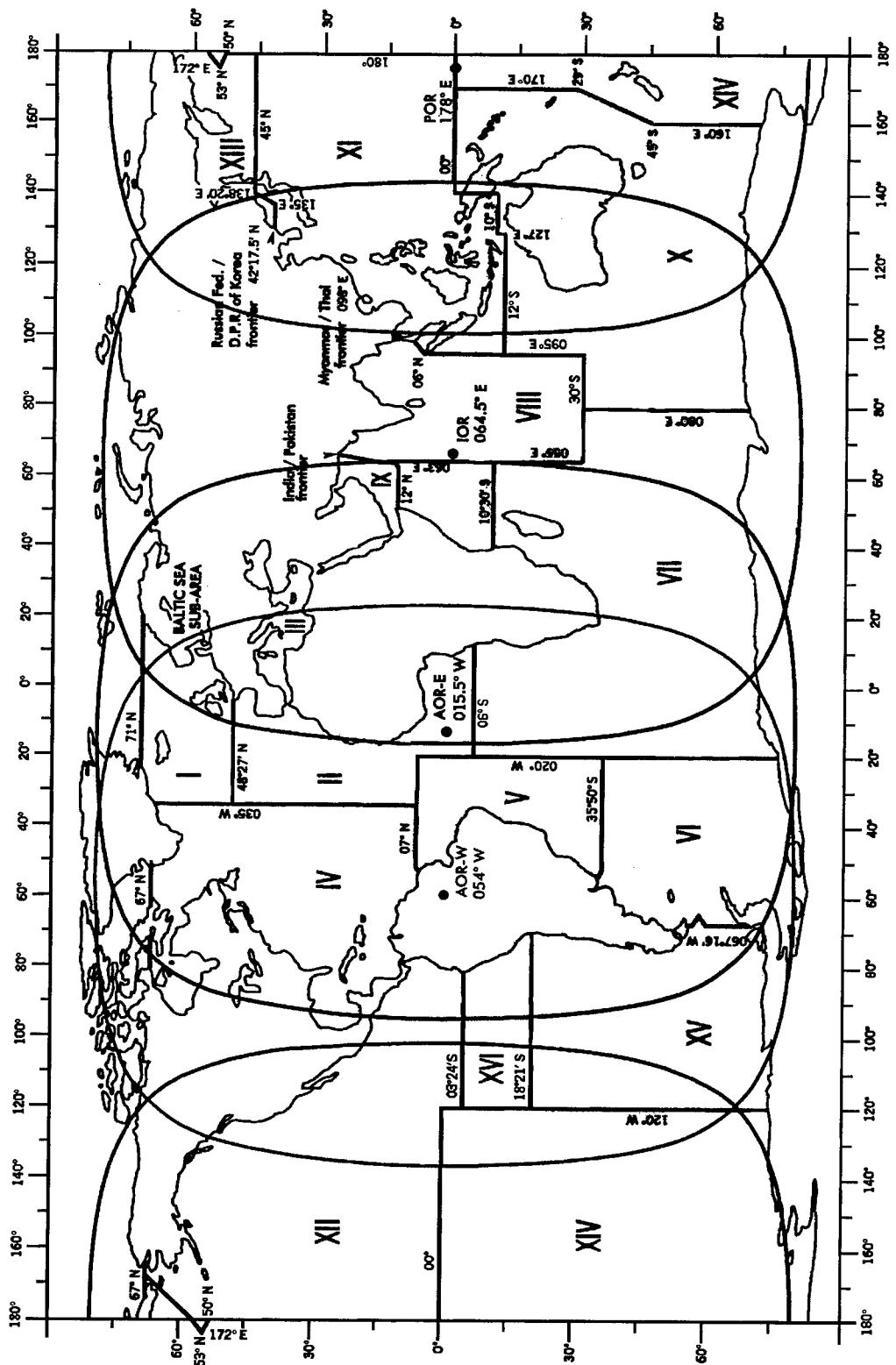
SafetyNet is an international and automatic, direct-printing, satellite-based transmission service for the promulgation and dissemination of navigational and meteorological warnings, meteorological forecasts and other urgent safety-related messages - MSI - to ships. This information is relevant to all sea-going vessels, and the message selection features ensure that mariners can receive safety information broadcasts which are tailored to their particular needs. SafetyNet fulfills an integral role in the GMDSS. The ability to receive SafetyNet service information is a necessity for all ships which sail beyond NAVTEX coverage (approximately 200 miles offshore).

SafetyNet offers the capability of directing a call to a given geographical area. The area may be fixed, as in the case of a NAVAREA or weather forecast area, or it may be uniquely defined by the originator. This is useful for messages, such as local storm warnings or shore-to-ship distress alerts, for which it is inappropriate to alert ships in an entire ocean region. Messages are broadcasted according to their priority (i.e. distress, urgent, safety, and routine). A map showing IMO GMDSS NAVAREAs is shown on page viii.

Virtually all navigable waters of the world are covered by the operational satellites in the INMARSAT system. Each satellite transmits traffic on a designated channel. Any ship sailing within the coverage area of an INMARSAT satellite will be able to receive all SafetyNet messages broadcasted over this channel. The Enhanced Group Call (EGC) channel is optimized by enabling the signal to be monitored by a small receive-only shipboard earth station which is dedicated to the reception of EGC messages. This capability can be built into other standard shipboard earth stations. However, INMARSAT Standard C shipboard earth stations are specifically designed to receive SafetyNet broadcasts. The Standard C shipboard earth stations are produced by several manufacturers and are considered to be among the least expensive satellite earth stations.

A typical Standard C shipboard (mobile) earth station consists of a football sized antenna, a small box of downlink electronics, a laptop PC and a printer or an option for a printer. Some manufacturers have combined these components into one unit.

# GMDSS/NAVAREAS





**NOAA**

**WEATHER**

**RADIO**











PGNEGO KWBC

**PART 1**

**WORLDWIDE**

**MARINE**

**RADIO**

RAFC WASHINGTON  
SIOUX FL 250-600  
VT 00Z WED 13 MAY 1998  
SYMBOLS R AND CB INDICATE HAD OR  
SEVERE TURBULENCE AND HAIL  
CHECK SIGHTS FOR VOLCANIC ASH

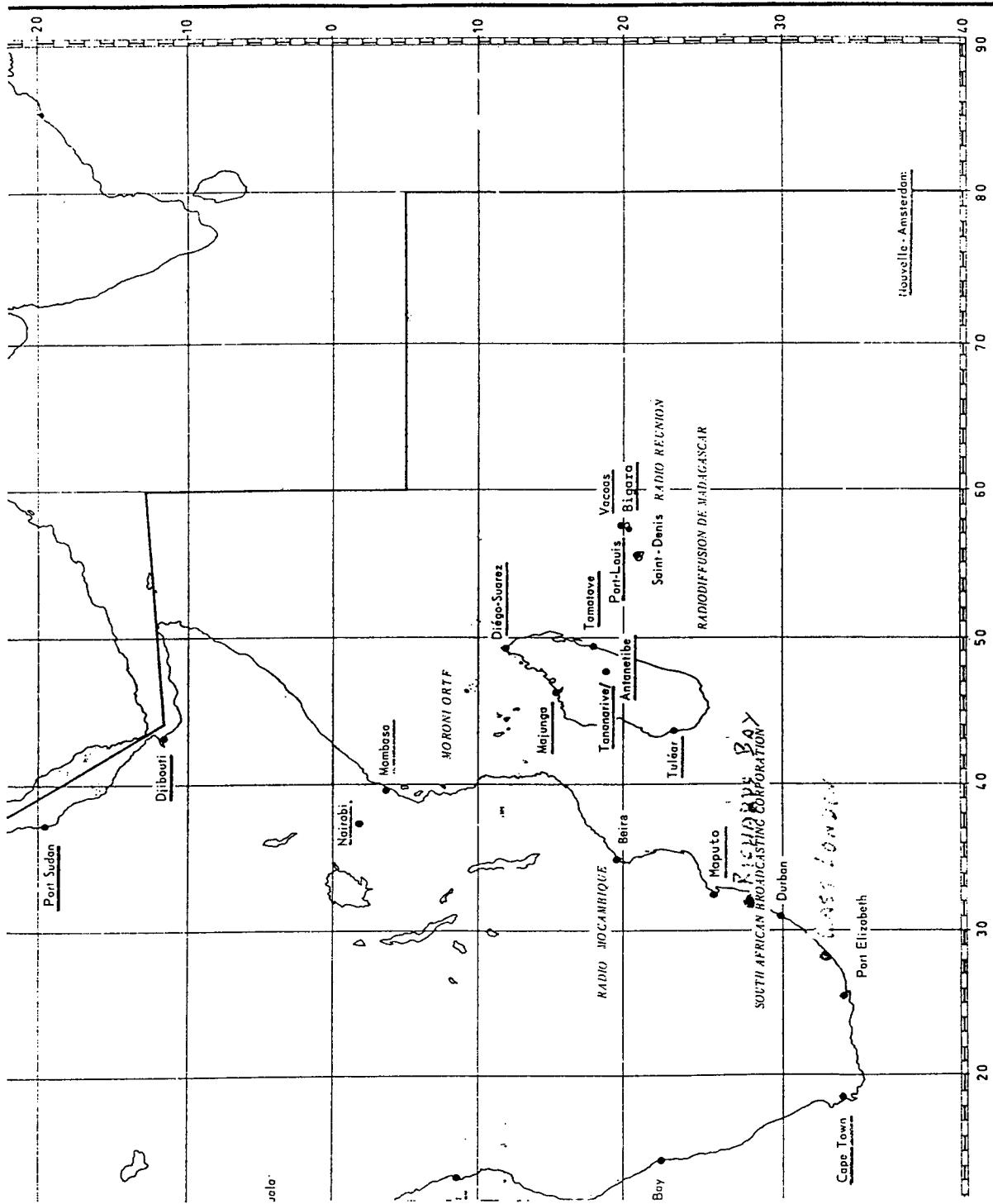


## **AFRICA - REGION I**

### **Egypt**

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
ISMAILIA (SERAPEUM) (May 97) 30 28 N 32 22 E	(X)	0750 1150 1550 1950	518kHz	NAVTEX		F	English
ALEXANDRIA (May 97) 31 12 N 29 52 E	(N)	0610 1010 1410 1810	518kHz	NAVTEX		F	English



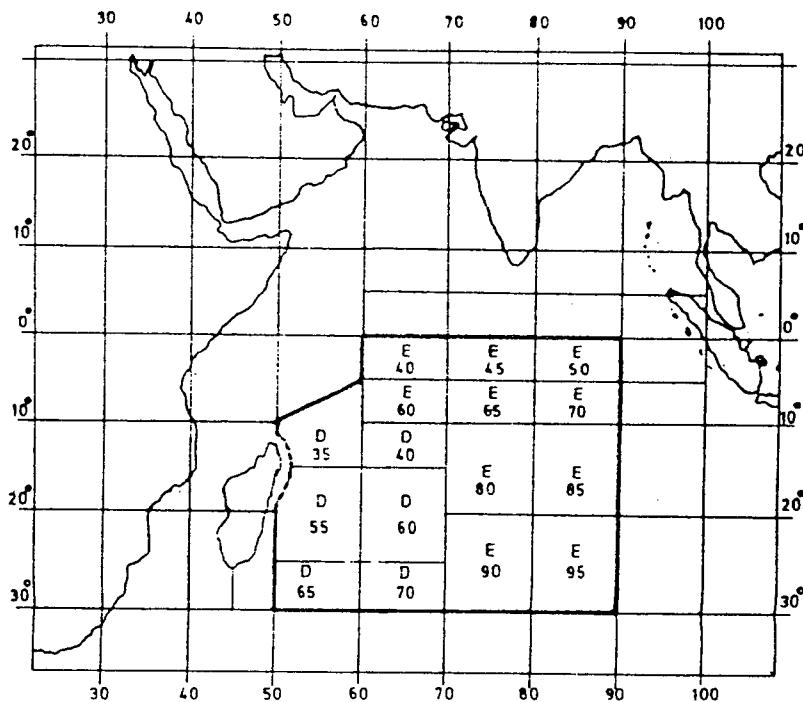




MAURITIUS - MAURICE

INDIAN OCEAN - OCEAN INDIEN

FLEET FORECAST AREAS - ZONES DE PREVISION





## New Amsterdam Island

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
MARTIN DE VIVIES (Dec 91)	(FJY4)	0248 0548 1018 1148	472kHz 8690kHz	Morse(AlA)	400W 1kW	F,S,W	English/ French

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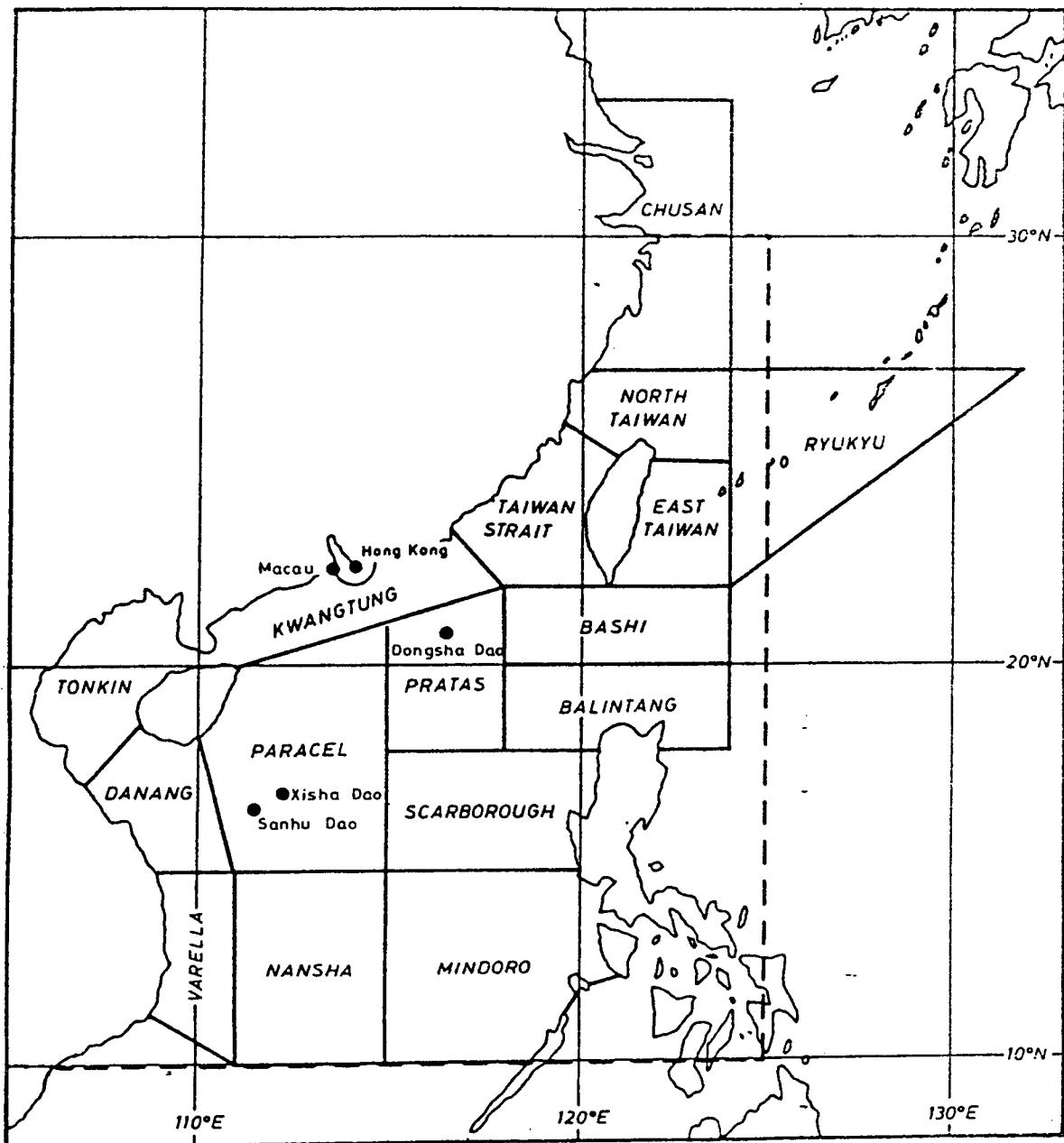
## Hong Kong

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
HONG KONG (Dec 91)	(VPS2)	H+18	435kHz	Morse(AlA)	2kW	W	English
		1318				F	
	(VPS8)	1000 TO 2100 H+18	4232.5kHz	Morse(AIA)	3.5kW	W	English
		1318				F	
	(VRN35)	H+18	8619kHz	Morse(AlA)	3.5kW	W	English
	(VRN60)	0000 TO 1500 H+18	13031kHz	Morse(AlA)	3.5kW	W	English
		1318				F	
	(VRN80)	0000 TO 1300 2100 TO 2400 H+18	17192kHz	Morse(AIA)	3.5kW	W	English
<hr/>							
HONG KONG (May 97) 22 13 N 114 15 E	(L)	0150 0550 0950 1350 1750 2150	518kHz	NAVTEX		F	English
<hr/>							



H O N G K O N G - H O N G - K O N G

WEATHER FORECAST AREAS - ZONES DE PREVISION



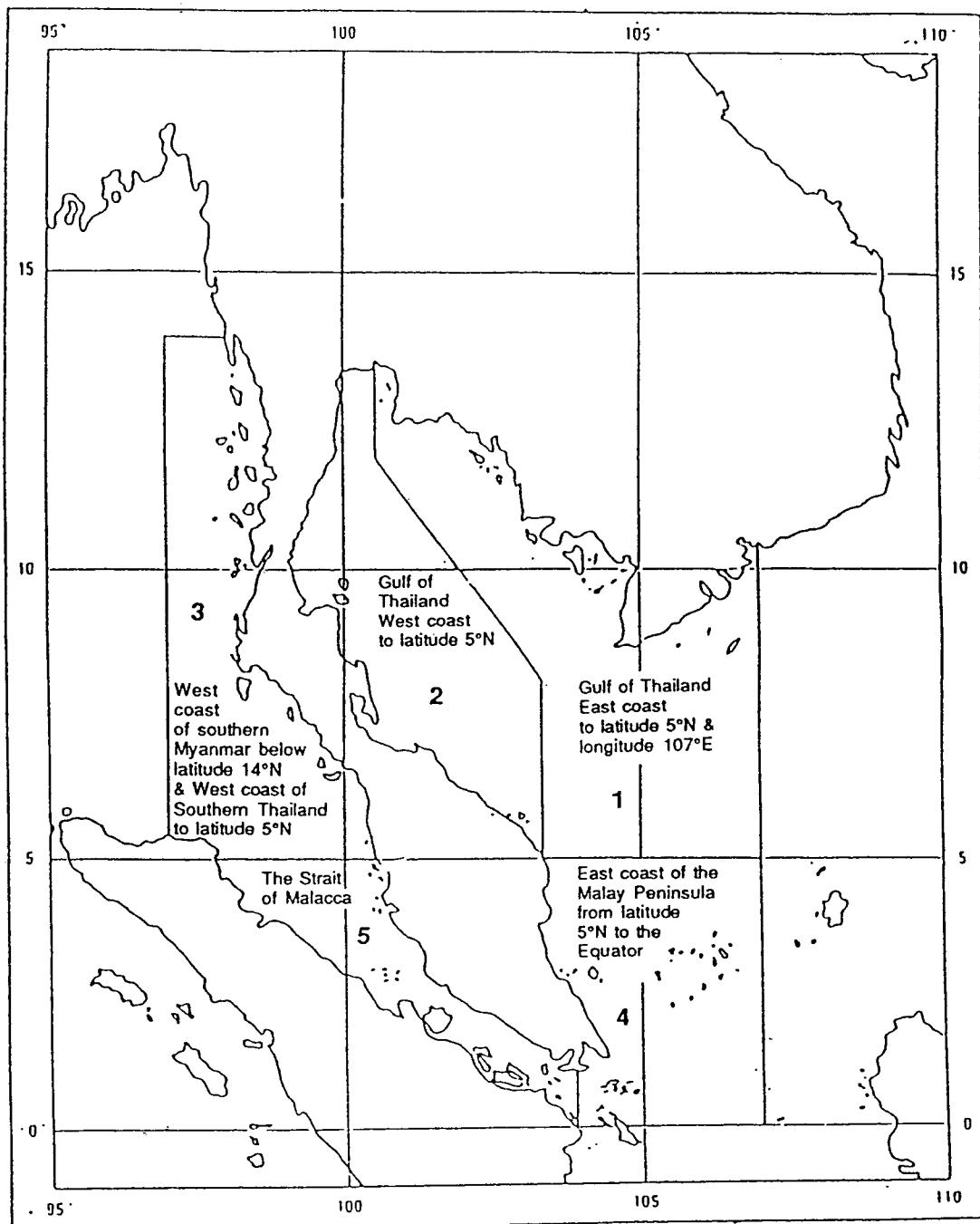
NOTE : The pecked line encloses the area for which the Royal Observatory issues warnings of tropical cyclones.

La ligne tiretée délimite la zone pour laquelle le "Royal Observatory" diffuse ses avis de cyclones tropicaux.

## India

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
BOMBAY (May 97)	(G)	0100 0500 0900 1300 1700 2100	518kHz	NAVTEX		F	English
MADRAS (May 97)	(P)	0230 0630 1030 1430 1830 2230	518kHz	NAVTEX		F	English

THAILAND - THAILANDE  
 WEATHER FORECAST AREAS - ZONES DE PREVISION



Note:

Division of forecasting areas:

Area 1: Gulf of Thailand East coast to latitude 5°N and longitude 107°E

Area 2: Gulf of Thailand West coast to latitude 5°N

Area 3: West coast of Southern Myanmar below latitude 14°N and West coast of Southern Thailand to latitude 5°N

Area 4: East coast of the Malay Peninsula from latitude 5°N to the Equator

Area 5: The Strait of Malacca

Division des zones de prévision :

Zone 1: Côte du golfe de Thaïlande jusqu'à la latitude 5°N et la longitude 107°E

Zone 2 : Côte occidentale du golfe de Thaïlande jusqu'à la latitude 5°N

Zone 3 : Côte occidentale du Myanmar méridionale jusqu'à la latitude 14°N et côte occidentale de la Thaïlande méridionale jusqu'à la latitude 5°N

Zone 4 : Côte orientale de la péninsule malaise de la latitude 5°N jusqu'à l'équateur

Zone 5 : Détroit de Malacca



## **SOUTH AMERICA-REGION III**

### **Argentina**

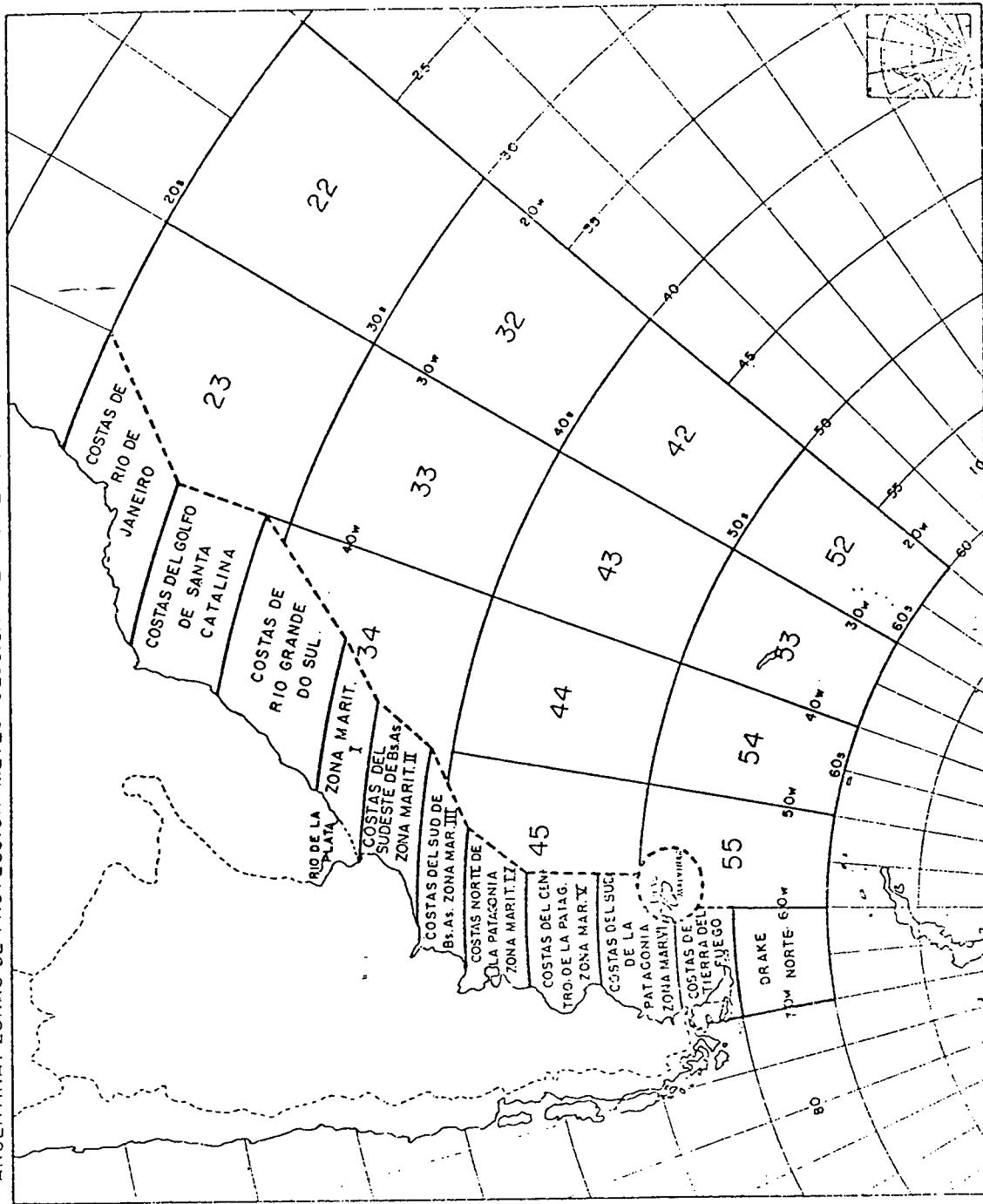
		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
BUENOS AIRES PREFECTURA NAVAL RADIO (Jun 92)	(L2B)	1100 2300	518 kHz	NAVTEX		F	English/ Spanish
RIO GALLEGOS (May 97) 51 37 S 65 03 W	(B)	0410 1010 1610 2210	518 kHz	NAVTEX		F	English/ Spanish
COMODORO RIVADAVIA (May 97) 51 37 S 65 03 W	(C)	0040 0640 1240 1840	518 kHz	NAVTEX		F	English/ Spanish
BAHIA BLANCA (May 97) 38 43 S 62 06 W	(E)	0210 0810 1410 2010	518 kHz	NAVTEX		F	English/ Spanish



ARGENTINA - ARGENTINE

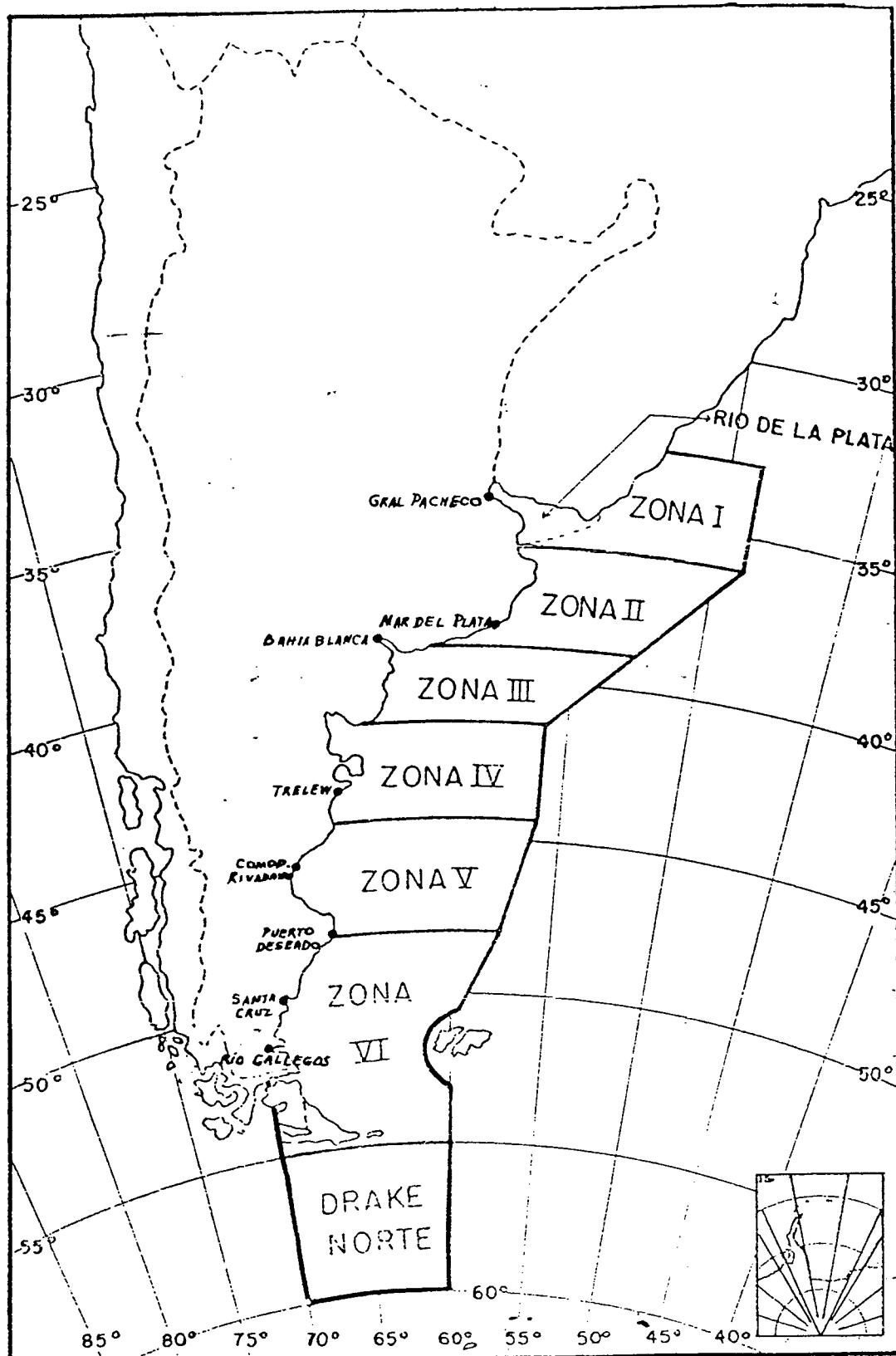
WEATHER FORECAST AREAS - ZONES DE PREVISION

ARGENTINA: ZONAS DE PROTECCION METEOROLOGICA A LA NAVEGACION MARITIMA





ARGENTINA - ARGENTINE  
WEATHER FORECAST AREAS - ZONES DE PREVISION





## ARGENTINA-ARGENTINE

### WEATHER FORECAST AREAS - ZONES DE PREVISION - continued/suite

#### TABLE 1 - TABLEAU I

#### BOUNDARIES OF COASTAL MARINE WEATHER FORECAST AREAS- LIMITES DES ZONES DE PREVISION POUR LA NAVIGATION MARITIME CÔTIÈRE:

- Zone I- Covers the Río de la Plata from the mouths of the Rivers Paraná and Uruguay to a line  
Joining Cape S. Antonio (Argentina) with Punta Rasa (Uruguay), and the Atlantic area between 34°S and 36°S.  
Couvre le Río de la Plata de l'embouchure des rivières Paraná et Uruguay jusqu'à une ligne joignant le cap S. Antonio (Argentine) à Punta Rasa (Uruguay), ainsi que la zone atlantique comprise entre 34° Set 36°s.
- Zone II- Atlantic area between 36°S and 39°S (Faro Claromecó).  
Zone atlantique entre 36° Set 39°S (phare de Claromecó).
- Zone III- Atlantic area between Faro Claromecó (lat.39°S) and the mouth of the Río Negro (lat.41°S).  
Zone atlantique entre le phare de Claromecó (lat.39°S) et l'embouchure du Río Negro (lat.41°S).
- Zone IV- Atlantic area between the mouth of the Río Negro (lat.41°S) and Bahía Camarones (lat.44°30'S).  
Zone atlantique entre l'embouchure du Río Negro (lat.41°S) et Bahía Camarones (lat.44°30'S).
- Zone V- Atlantic area between Bahía Camarones (lat.44°30'S) and Faro Cabo Guardián (lat.48 °S).  
Zone atlantique entre Bahía Camarones (lat.44 °30'S) et le phare du Cap Guardián (lat.48 °S).
- Zone VI- Atlantic area between Faro Cabo Guardián (lat.48 °S) and Ushuaia (lat.55 °S).  
Zone atlantique entre le phare du Cap Guardián (lat.48 °S) et Ushuaia (lat.55 °S).

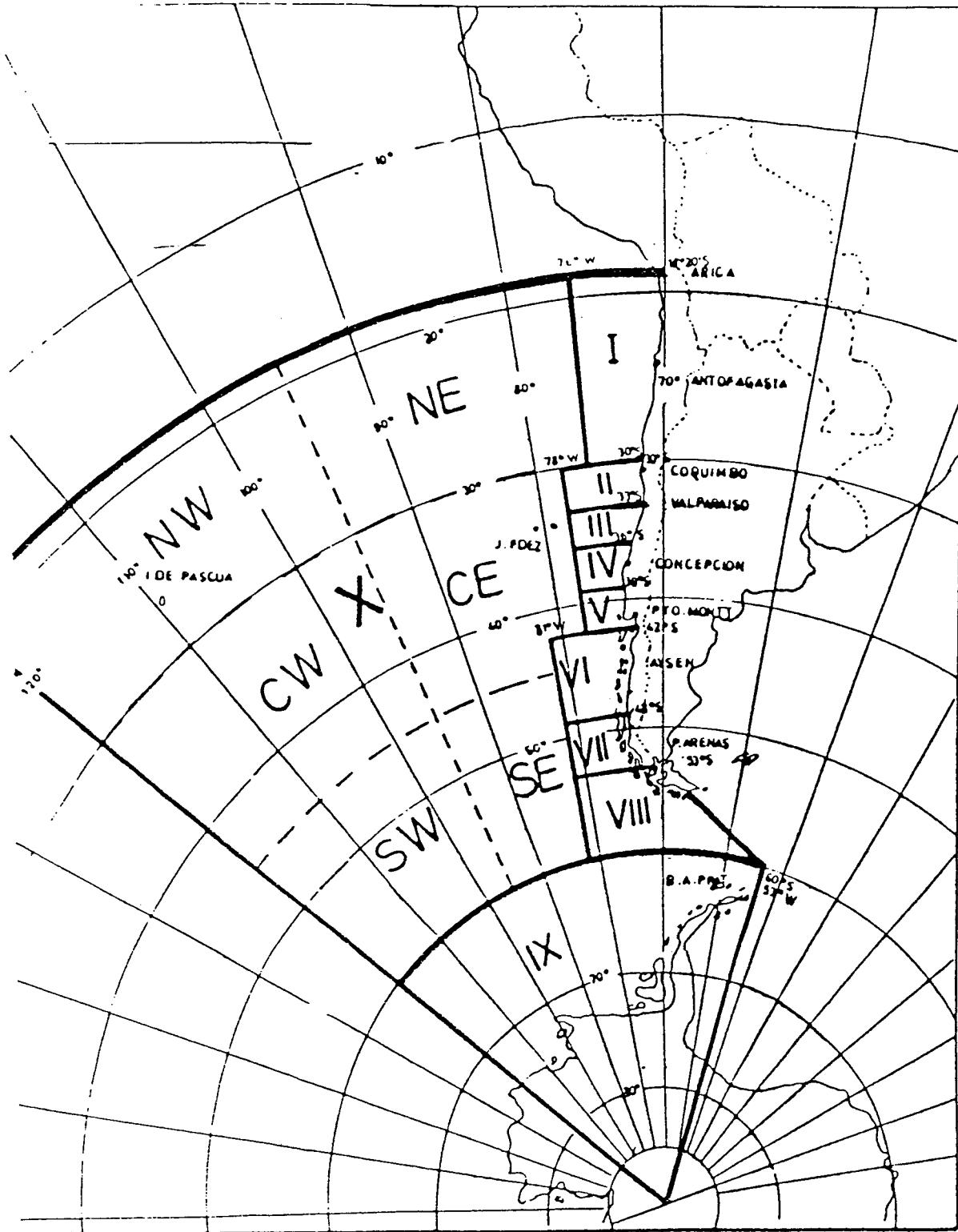
Note: Coastal zones extend 300 nautical miles out to sea.  
Les zones côtières s'étendent en direction du large jusqu'à 300 milles nautiques de la côte.

## Chile

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
ANTOFAGASTA (May 97) 23 40 S 70 25 W	(A)	0000 0400 0800 1200 1600 2000	518kHz	NAVTEX	F	English/ Spanish	
VALPARAISO (May 97) 32 48 S 71 29 W	(B)	0010 0410 0810 1210 1610 2010	518kHz	NAVTEX	F	English/ Spanish	
TALCAHUANO (May 97) 36 42 S 73 06 W	(C)	0020 0420 0820 1220 1620 2020	518kHz	NAVTEX	F	English/ Spanish	
PUERTO MONIT (May 97) 41 30 S 72 58 W	(D)	0030 0430 0830 1230 1630 2030	518kHz	NAVTEX	F	English/ Spanish	
PUNTA ARENAS (May 97) 53 09 S 70 58 W	(E)	0040 0440 0840 1240 1640 2040	518kHz	NAVTEX	F	English/ Spanish	
ISLA DE PASCUA (May 97) 27 09 S 109 25 W	(F)	0050 0450 0850 1250 1650 2050	518kHz	NAVTEX	F	English/ Spanish	

CHILE - CHILI

WEATHER FORECAST AREAS - ZONES DE PREVISION







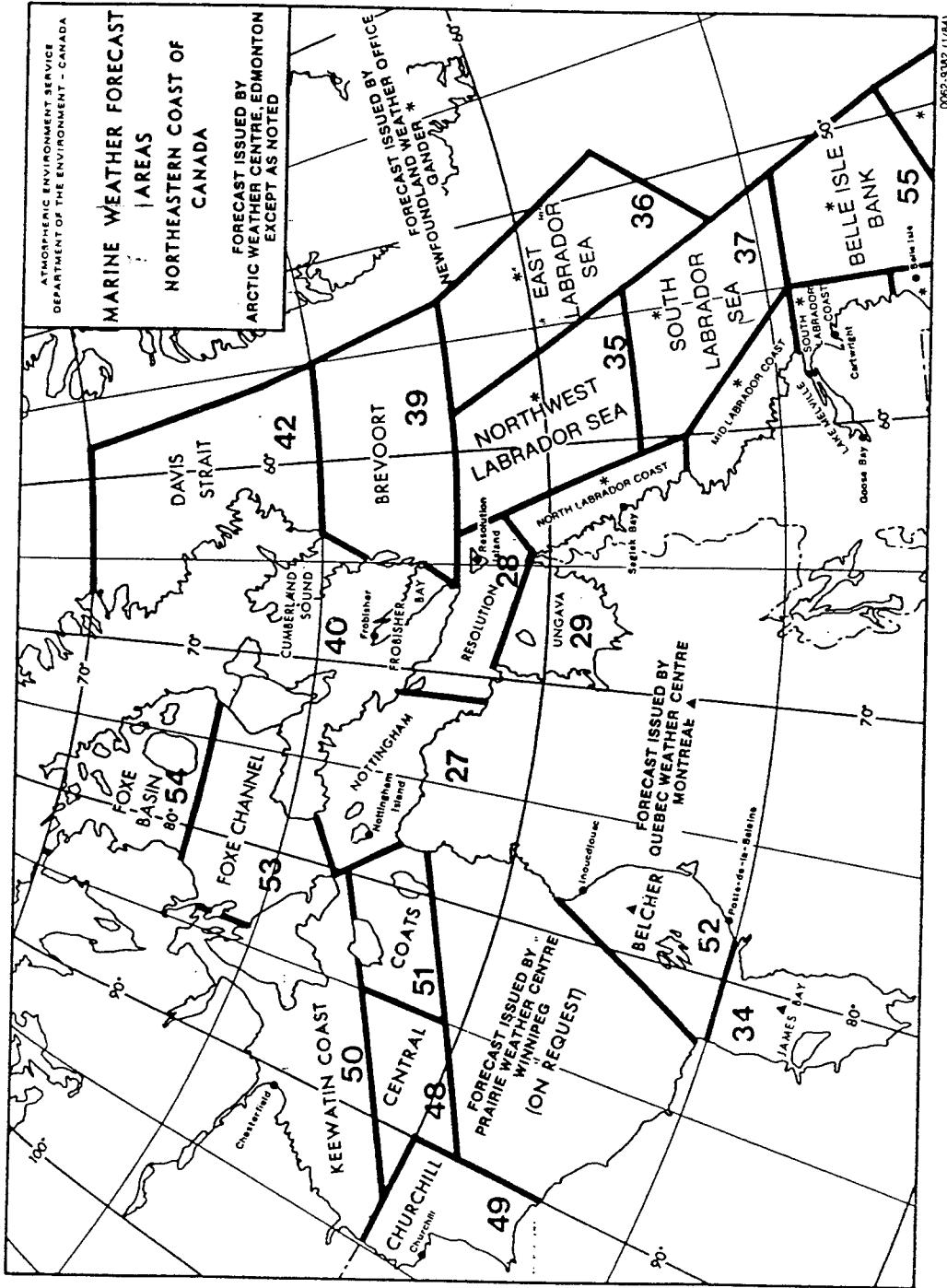


		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
CAPE BLOMIDON, N S (Apr 94) 45 12 45 N 64 23 50 W	(VAU)	VHF	161.775 MHz (ch 83B)	Voice(F3E)		F, S	English
THUNDER BAY, ONT (Apr 97) 48 24 49 N 89 21 48 W	(VBA)	0130 1430 1530	420 kHz	Morse(A1A)		F, S, I	English
		0040 1410 1520	2582 kHz	Morse(A1A)		F, S, I	English
		VHF	161.775 MHz (ch 83B)	Voice(F3E)	F		English
		0230 1030 1430 2230	518 kHz	NAVTEX (P)	F		English
		0630 1830	518 kHz	NAVTEX (P)	I		English
LABRADOR, LABR (May 97) 74 45 14 N 94 58 09 W	(VOK)	0137 1007 1437 2037	2958 kHz	Voice(J3E)		F, S, I	English
		VHF	161.65 MHz (Ch 21B) 161.775 MHz (ch 83B)	Voice(J3E )	F, I		English
		0350 0750 1150 1950 2350	518 kHz	NAVTEX (X)	F		English

CANADA - CANADA

NORTHEASTERN COAST - COTE NORD-EST

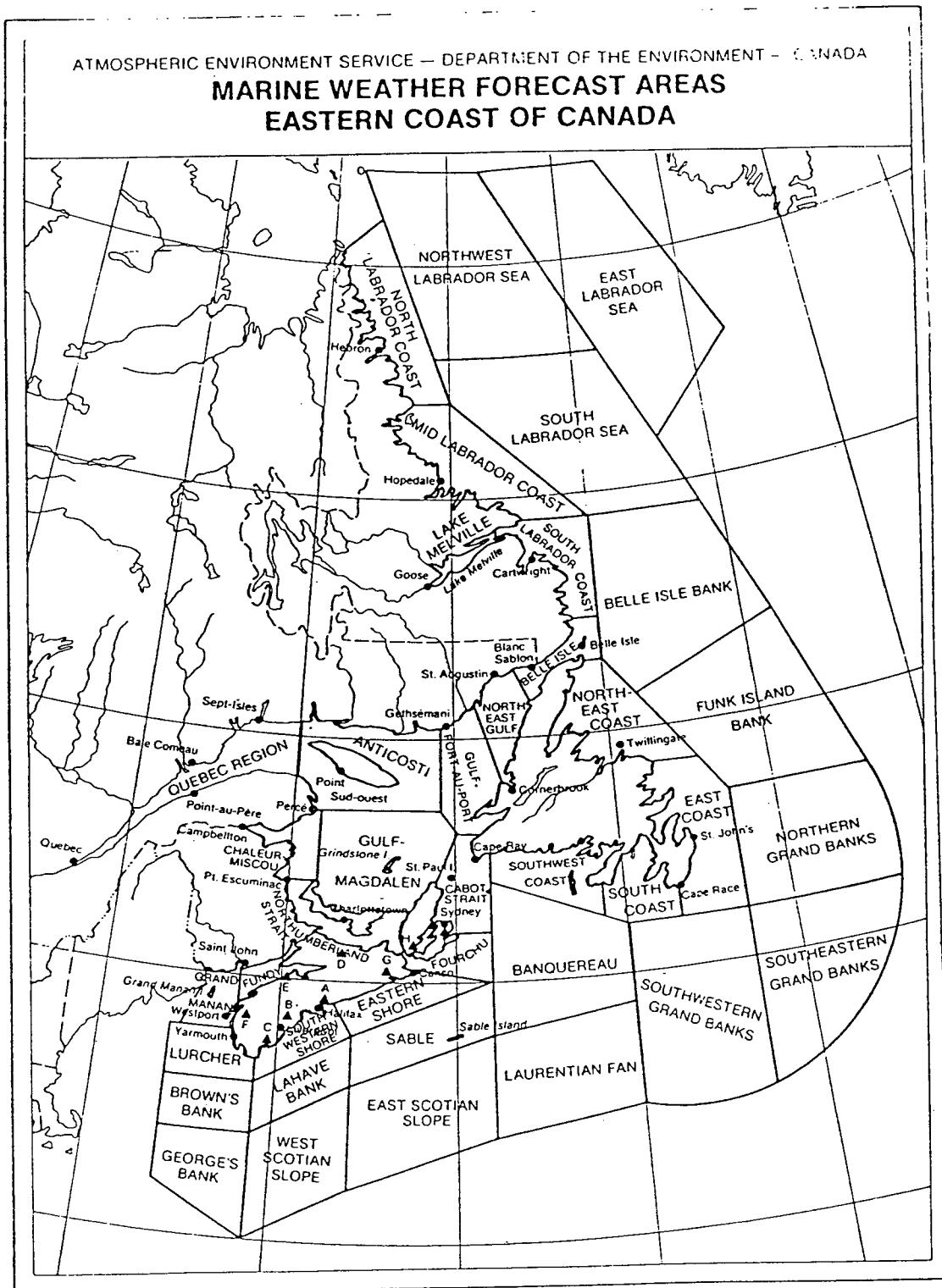
WEATHER FORECAST AREAS - ZONES DE PREVISION



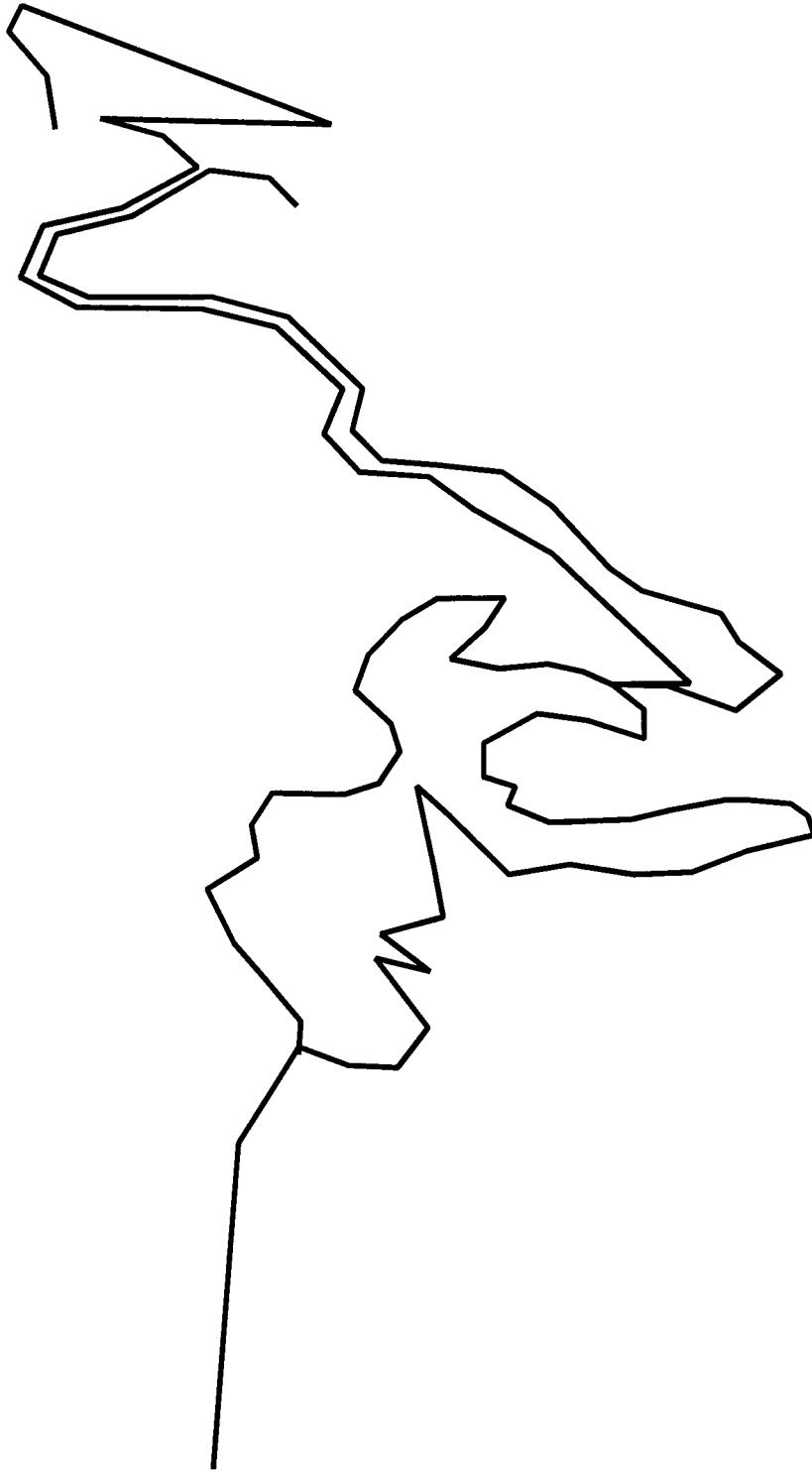
CANADA - CANADA

ATLANTIC COAST, GULF AND RIVER ST. LAWRENCE  
CÔTE ATLANTIQUE, GOLFE DU ST-LAURENT ET FLEUVE ST-LAURENT

WEATHER FORECAST AREAS - ZONES DE PREVISION







# GREATER LAKES

CHANGE 1 (11/01/1998)

## Great Lakes - Canada and United States of America

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
GRAND HAVEN, MI (Apr 97)	(VBB)	VHF	161.7 MHz (ch 22B)	Voice(F3E)		F	English
SAULT STE. MARIE, MI (Apr 97)	(NOG)	VHF	161.7 MHz (ch 22B)	Voice(F3E)		F	English
BUFFALO, NY, (Apr 97)	(VBB)	VHF	161.7 MHz (ch 22B)	Voice(F3E)		F	English
DETROIT, MI (Apr 97)	(VBB)	VHF	161.7 MHz (ch 22B)	Voice(F3E)		F	English
MILWAUKEE, WI (Apr 97)	(VBB)	VHF	161.7 MHz (ch 22B)	Voice(F3E)		F	English
PRESCOTT, ONT (Apr 97) 43 01 45 N 82 11 08 W	(VBE)	VHF	161.65 MHz (ch 21B) 161.75 MHz (Ch 23B) 162.000 MHz (Ch 28B) 161.775 MHz (Ch 83B)	Voice(F3E)		F	English
		0510 0910 1710 2110	518 kHz	NAVTEX (P)		F	English
		06110 1310	518 kHz	NAVTEX (P)		I	English
CARDINAL, ONT (Apr 94) 44 48 28 N 75 21 48 W	(VDQ)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F	English

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
THUNDER BAY, ONT (Apr 97) 48 24 49 N 89 21 48 W	(VBA)	0130 1430 1530  0040 1410 1520  0030 1000 1130 1330 1730 2330  VHF  0230 1030 1430 2230  0630 1830	420 kHz  2582 kHz  157.15 MHz (ch 23)  161.775 MHz (ch 83B)  518 kHz  NAVTEX (P)  518 kHz  NAVTEX (P)	Morse(A1A)  Morse(A1A)  Voice(F3E)  Voice(F3E)  NAVTEX (P)  Voice(F3E)		F, S, I  F, S, I  F  F  I	English  English  English  English
HORN, ONT (Apr 94) 48 48 45 N 87 21 00 W	(VBA)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F	English
CHURCHILL, MAN (Apr 94) 58 45 42 N 93 56 39 W	(VBA)	0040  1410  1520  0130 1430  1520	2582 kHz 161.9 MHz (ch 26)  2582 kHz 161.9 MHz (ch 26)  2582 kHz 161.9 MHz (ch 26)  420 kHz  420 kHz	Voice(J3E) Voice(F3E)  Voice(J3E) Voice(F3E)  Voice(J3E) Voice(F3E)  Morse(A1A)		F, S, I  F, S  I  F, S	English  English  English

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
FRASERWOOD, MAN (Apr 94) 50 34 18 N 97 13 54 W	(VBA)	0030 1000 1130 1330 1730 2230	156.95 MHz (ch 19)	Voice(F3E)		F	English
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JACKHEAD, MAN (Apr 94) 51 52 55 N 97 18 50 W	(VBA)	0030 1000 1130 1330 1730 2230	161.9 MHz (ch 26)	Voice(F3E)		F	English
-----							
LONG POINT, MAN (Apr 94) 52 55 46 N 98 57 52 W	(VBA)	0030 1000 1130 1330 1730 2230	161.9 MHz (ch 26)	Voice(F3E)		F	English
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## NORTH PACIFIC EAST

### Canada

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
ALBERT BAY, B C (Apr 92) 50 35 12 N 126 55 28 W	(VAF)	VHF	162.55 MHz (ch WX1)	Voice(F3E)		F, S	English
CALVERT, B C (Apr 97) 51 35 21 N 128 00 43 W	(VAC)	VHF	162.65 MHz (ch WX2)	Voice(F3E)		F, S	English
HOLBERG, B C (Apr 97) 50 38 24 N 128 07 34 W	(VAC)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English
COMOX, B C (Apr 97) 49 45 00 N 124 56 39 W	(VAC)	VHF	162.55 MHz (ch WX1) 162.4 MHz (Ch WX2) 161.65 MHz Ch 21B	Voice(F3E) Voice(F3E) Voice(F3E)		F, S F, S F, S	English English English
DISCOVERY, B C (Apr 97) 50 19 27 N 125 22 16 W	(VAC)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English
PRINCE RUPERT, B C (Apr 97) 54 18 00 N 130 25 09 W	(VAJ)	0830 0105 0605 0705 1305 2005	518 kHz 2054 kHz	NAVTEX (D) Voice(J3E)		F F, S	English English

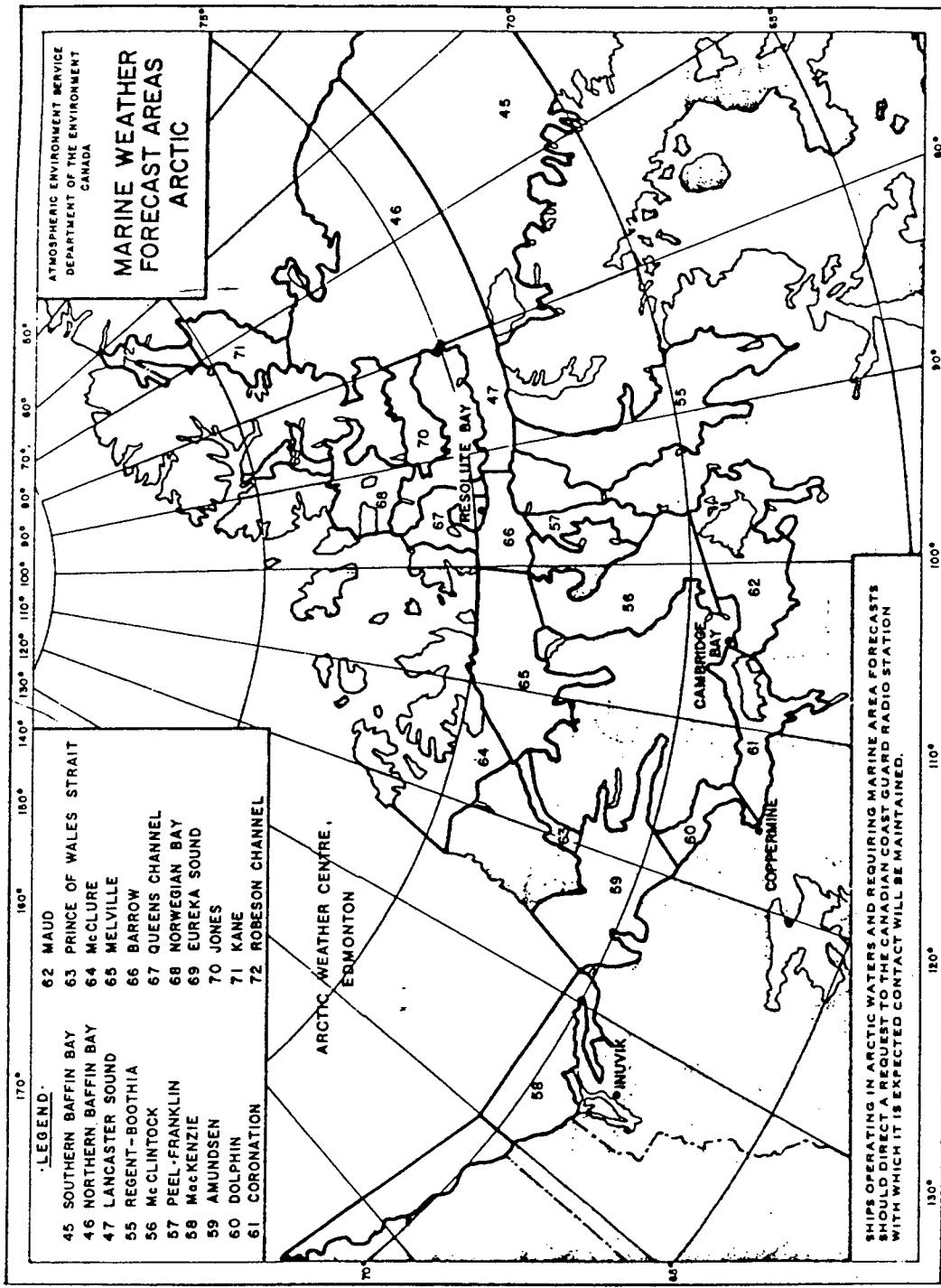
		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
SANDSPIT, B C (Apr 97) 53 14 00 N 131 48 50 W	(VAJ)	0105 0605 0705 1305 2005	2054 kHz	Voice(J3E)		F, S	English
BARRY INLET, B C (Apr 97) 52 34 30 N 131 45 13 W	(VAJ)	VHF	162.40 MHz (ch WX2)	Voice(F3E)		F, S	English
CUMSHEWA, B C (Apr 92) 53 09 33 N 131 59 47 W	(VAJ)	VHF	162.475 MHz (ch WX3)	Voice(F3E)		F, S	English
DUNDAS ISLAND, B C (Apr 97) 54 31 16 N 130 54 55 W	(VAJ)	VHF	161.40 MHz (Ch WX2)	Voice(F3E)		F, S	English
KITIMAT, B C (Apr 97) 54 03 20 N 128 37 51 W	(VAJ)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English
KLEMTU B C (Apr 97) 52 34 45 N 128 33 45 W	(VAJ)	VHF	162.55 MHz (ch WX1)	Voice(F3E)		F, S	English
MOUNT GILL, B C (Apr 97) 53 15 46 N 129 11 42 W	(VAJ)	VHF	162.40 MHz (ch WX2)	Voice(F3E)		F, S	English
MOUNT HAYS, B C (Apr 97) 54 17 12 N 130 18 49 W	(VAJ)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
NADEN HARBOUR, B C	(VAJ)	VHF	162.475 MHz (ch WX3)	Voice(F3E)		F, S	English
(Apr 97)							
53 57 18 N							
132 56 30 W							
-----							
VAN INLET, B C	(VAJ)	VHF	162.55 MHz (ch WX1)	Voice(F3E)		F, S	English
(Apr 97)							
53 15 08 N							
132 32 31 W							
-----							
TOFINO, B C	(VAE)	0130 1530	4125 kHz	Voice(J3E)		F, S	English
(Apr 97)							
48 53 31 N							
125 32 25 W							
		0050 0650 1350 1850	2054 kHz	Voice(J3E)		F, S	English
		0110 0810 1310 2110	518 kHz	NAVTEX (H)		F, S	English
-----							
ELIZA DOME, B C	(VAE)	VHF	162.55 MHz (ch WX1)	Voice(F3E)		F, S	English
(Apr 97)							
49 52 24 N							
127 07 13 W							
-----							
MT OZZARD, B C	(VAE)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English
(Apr 97)							
48 57 33.8 N							
125 29 29.9 W							
-----							
PORT ALBERNI, B C	(VAE)	VHF	162.40 MHz (ch WX2)	Voice(F3E)		F, S	English
(Apr 97)							
49 13 07 N							
124 48 43 W							
-----							
ESTEVAN, B C	(VAE)	VHF	162.475 MHz (ch WX3)	Voice(F3E)		F, S	English
(Apr 97)							
49 22 59 N							
129 41 12 W							
-----							

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
ESPERANZA, B C (Apr 97) 49 50 32 N 126 48 22 W	(VAE)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English
VANCOUVER, B C (Apr 97) 49 10 30 N 123 07 15 W	(VAI)	0230 0630 1830	4235 kHz 6493 kHz 8453 kHz 12876 kHz 17175 kHz	Morse(AlA)		F	English
		0200 0800 1900	4384 kHz	Voice(J3E)		F	English
BOWEN ISLAND, B C (Apr 97) 49 20 41 N 123 23 12.5 W	(VAI)	VHF	162.475 MHz (ch WX3)	Voice(F3E)		F, S	English
MT PARKE, B C (Apr 92) 48 50 23.4 N 23 17 41 W	(VAI)	VHF	161.65 MHz (ch 21B)	Voice(F3E)		F, S	English
MT HELMCKEN, B C (Apr 97) 48 24 07 N 123 34 17 W	(VAI)	VHF	162.475 MHz (ch WX3)	Voice(F3E)		F, S	English
INUVIK, N W T (Apr 92) 68 19 26 N 133 35 00 W	(VFA)	0235 1435  0300 1500	6218.6 kHz  6351.5 kHz	Voice(J3E)  Morse(AlA)		F, S	English

CANADA - CANADA

WESTERN AND CENTRAL ARCTIC - ARCTIQUE OCCIDENTAL ET CENTRAL





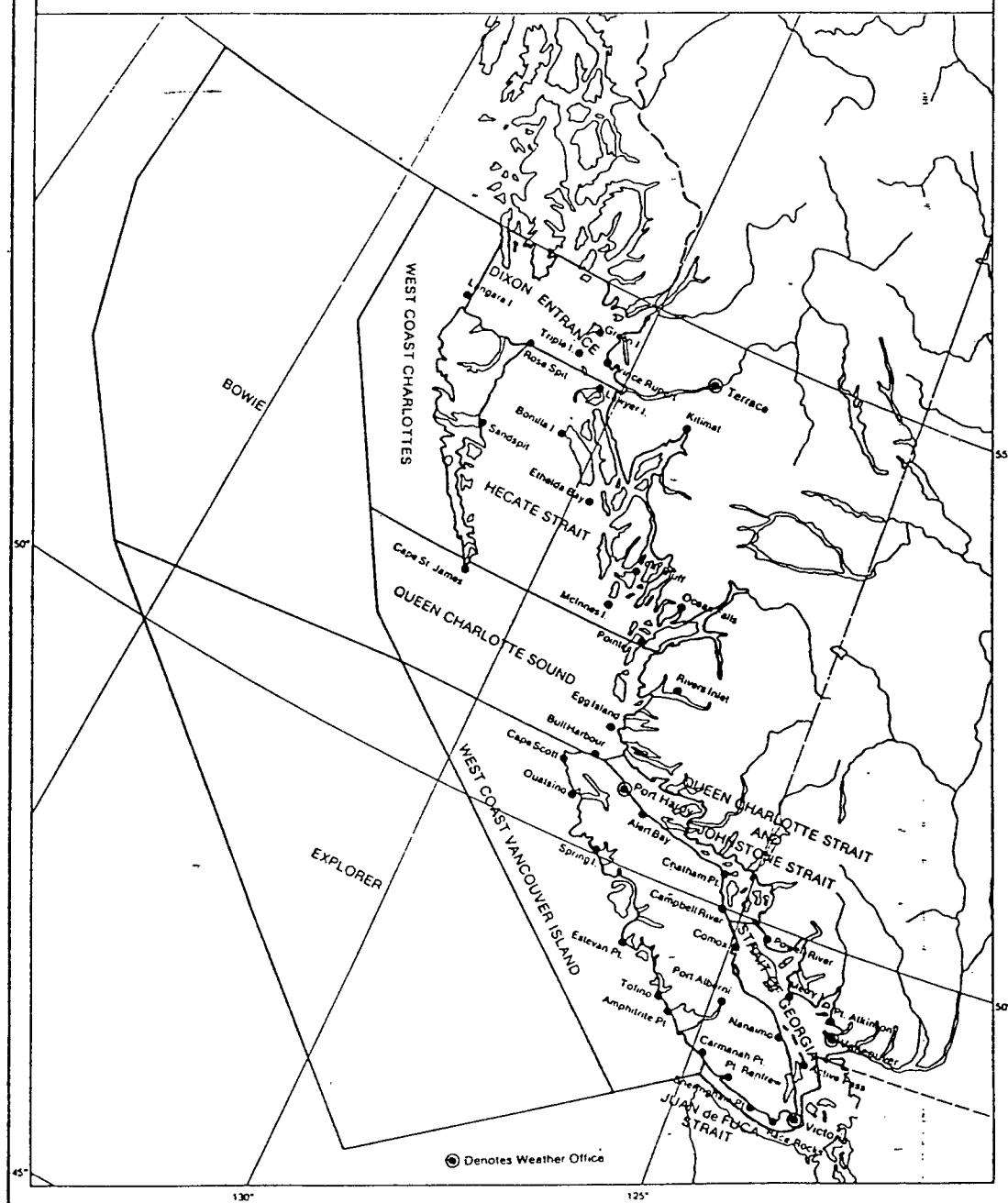
C A N A D A - C A N A D A

PACIFIC COAST - CÔTE DU PACIFIQUE

WEATHER FORECAST AREAS - ZONES DE PRÉVISION

ATMOSPHERE & ENVIRONMENT SERVICE -- DEPARTMENT OF THE ENVIRONMENT — CANADA

**MARINE WEATHER FORECAST AREAS  
WESTERN COAST OF CANADA**





## NORTH ATLANTIC WEST

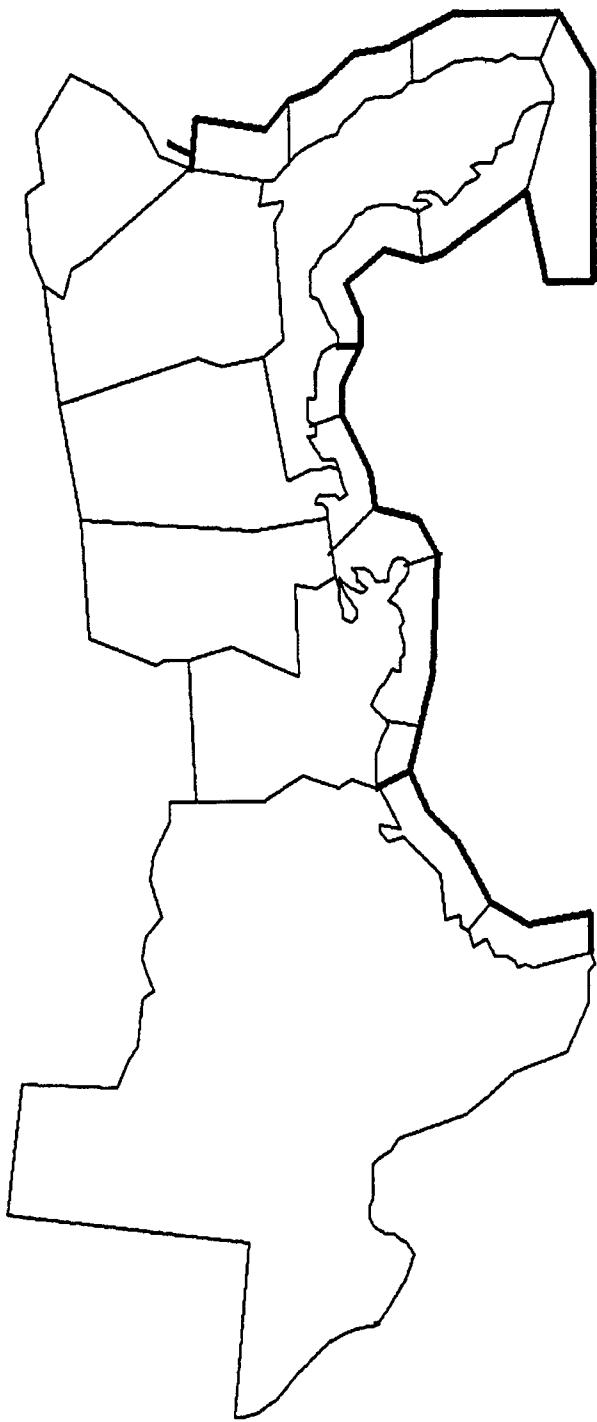
### Caribbean/Gulf of Mexico

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
SAN JUAN, PR (Apr 97)	(NMR-1)	1210 2210	157.1 MHz (ch 22A)	Voice (F3E )		F	English
		0030 1430	2670 kHz	Voice (J3E)		F	English
		0200 0600 1000 1400 1800 2200	518 kHz	NAVTEX (R)		F	English

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**BASIC MARINE AREAS**  
NATIONAL WEATHER SERVICE SOUTHERN REGION  
**ATLANTIC, GULF, CARIBBEAN**



## **NORTH ATLANTIC WEST**

### **United States of America**

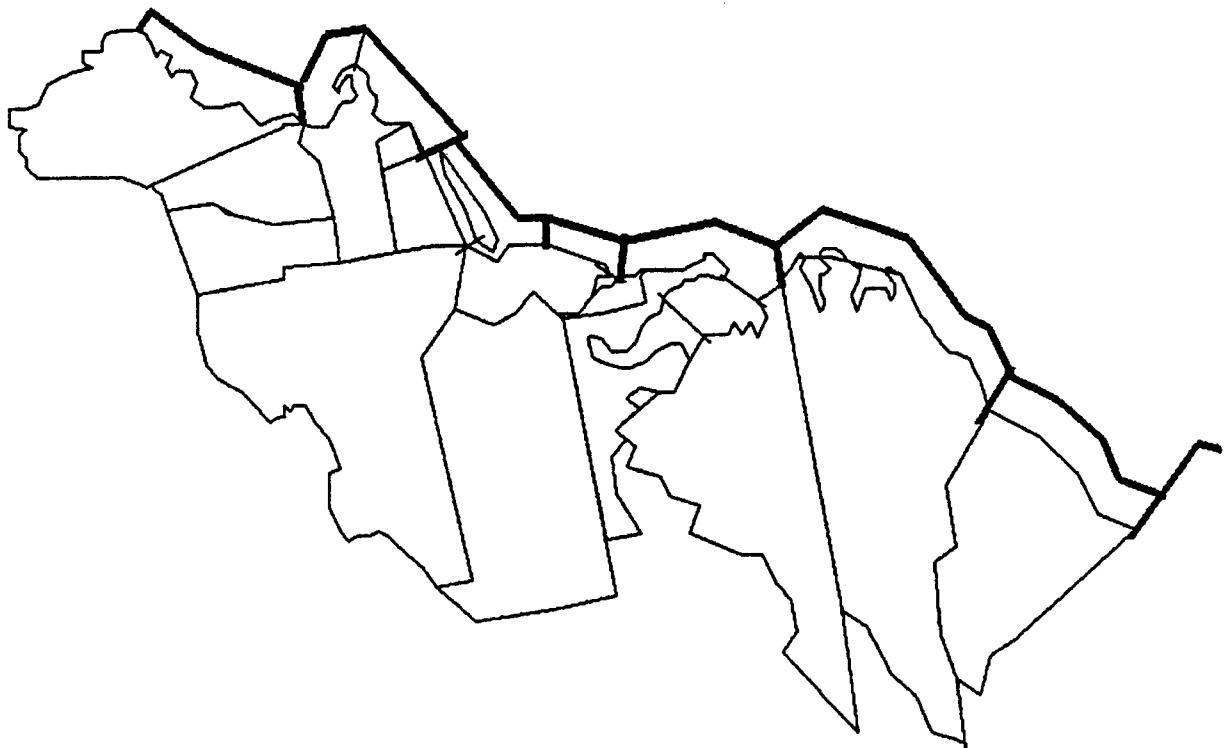
		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
BOSTON, MA (Apr 97)	(NMF)	1218	6.314 MHz 8.4165 MHz 12.579 Mhz	Radioteletype(F1B)	I	English	
41 43 N 70 30 W		1248	8.4165 Mhz 12.579 MHz 16.8065 MHz	Radioteletype(F1B)	I	English	
		0140	6.314 MHz 8.4165 MHz 12.579 Mhz	Radioteletype(F1B )	F	English	
		1630	8.4165 Mhz 12.579 MHz 16.8065 MHz	Radioteletype(F1B)	I	English	
		1035 2235	157.1 MHz (ch 22A)	Voice(F3E)	F		
		0445 0845 1245 1645 2045 0045	518 kHz	NAVTEX (F)	F	English	
CHARLESTON, S.C. (Apr 97)	(NMB)	1200 2200	157.1 kHz (ch 22A)	Voice(F3E)	F	English	
		0420 1620	2670 kHz	Voice(J3E)	F	English	
MAYPORT, FLA (Apr 97)	(NMA-10)	1215 2215	157.1 MHz (ch 22A)	Voice(F3E)	F	English	
		0620 1820	2670 kHz	Voice(J3E)	F	English	

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
MIAMI, FLA (May 97) 25 37 N 80 23 W	(NCF)	1230 2230	157.1 MHz (ch 22A)	Voice(F3E)	F		English
		0350 1550	2670 kHz	Voice(J3E)	F		English
		0000 0400 0800 1200 1600 2000	518 kHz	NAVTEX (A)	F		English
<hr/>							
CHESAPEAKE, VA (May 97) 36 43 N 76 00 W	(NMN-80)	0230 1333	2670 kHz	Voice(J3E)	F		English
		0230 11200	157.1 MHz (ch 22A)	Voice(F3E)	F		English
		0130 0530 0930 1330 1730 2130	518 kHz	NAVTEX (N)	F		English
<hr/>							
KEY WEST, FLA (Apr 97)	(NOK)	1200 2200	157.1 MHz (ch 22A)	Voice(F3E)	F		English
<hr/>							
ST PETERSBURG, FL (Apr 97)	(NMA-12)	1300 2300	157.1 MHz (ch 22A)	Voice(F3E)	F		English
		0320 0420	2670 kHz	Voice(J3E)	F		English
<hr/>							
SANDY HOOK, NJ (Apr 97)	(NMY-52)	1050 2250	157.1 MHz (ch 22A)	Voice(F3E)	F		English
<hr/>							
CAPE MAY, NJ (Apr 97)	(NMK-2)	1103 2303	2670 kHz 157.1 MHz (ch 22A)	Voice(J3E) Voice(F3E)	F		English
<hr/>							

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
MOBILE, AL (May 92)	(NOQ)	1020 1220 1650 2250	2670 kHz 157.1 MHz (Ch 22A)	Voice(J3E)		F	English
<hr/>							
NEW ORLEANS, LA (May 97) 29 53 N 89 57 W	(NMG)	0550  1035 1235 1635 2235	2670 kHz 157.1 MHz (ch 22A)	Voice(J3E)		F	English
		0300 0700 1100 1500 1900 2300	518 kHz	NAVTEX (G)		F	English

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**BASIC MARINE  
AREAS**  
**NATIONAL WEATHER  
SERVICE**  
**EASTERN REGION**  
**ATLANTIC SEABOARD**





**BASIC MARINE AREAS**  
NATIONAL WEATHER SERVICE SOUTHERN REGION  
**ATLANTIC, GULF, CARIBBEAN**





# NORTH PACIFIC EAST - REGION IV

## United States of America

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
KODIAK, AK (Apr 97)	(NOJ)	0133 0233 0533 1433 1603 1803	157.1 MHz (ch 22A)	Voice(F3E)	F	English	
		0300 0700 1100 1500 1900 2300	518 kHz	NAVTEX (J)	F	English	
		-----	-----	-----	-----	-----	-----
ASTORIA, OR (Apr 97)	(NMC)	0533 1733	2670 kHz	Voice(J3E)	F	English	
		0130 0530 0930 1330 1730 2130	518 kHz	NAVTEX (W)	F	English	
		-----	-----	-----	-----	-----	-----
LONG BEACH, CA (Apr 97)	(NMC)	0503 1303 2103	2670 MHz	Voice(J3E)	F	English	
		0200 1800	157.1 MHz (ch 22A)	Voice(F3E)	F	English	
		0045 0445 0845 1245 1645 2045	518 kHz	NAVTEX (Q)	F	English	
		-----	-----	-----	-----	-----	-----

SAN FRANCISCO, CA (NMC)      0203      2670 kHz      Voice(J3E)      F      English  
(Apr 97)      1403

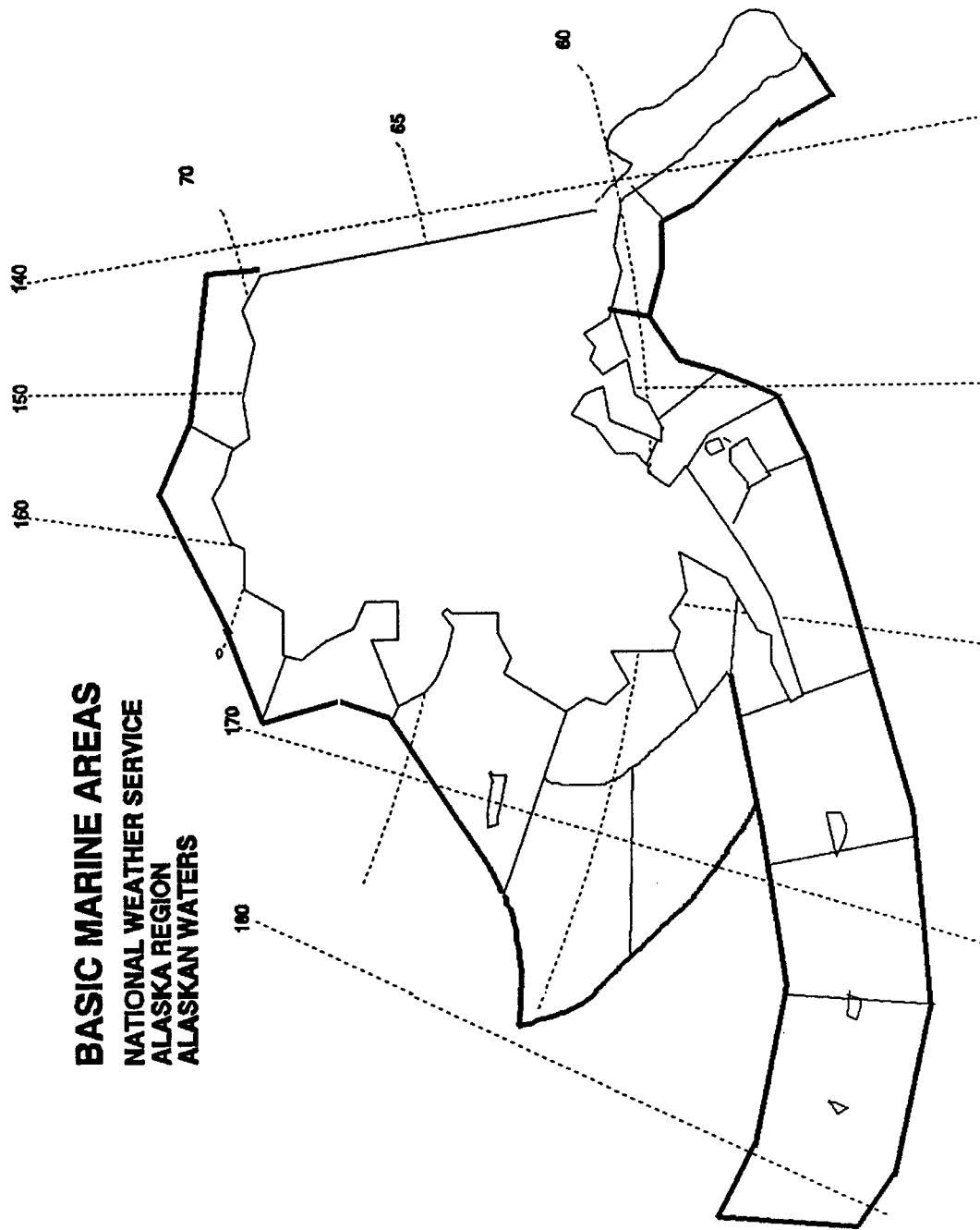
1600      157.1 MHz      Voice(F3E)      F      English  
1900      (ch 22A)

2330

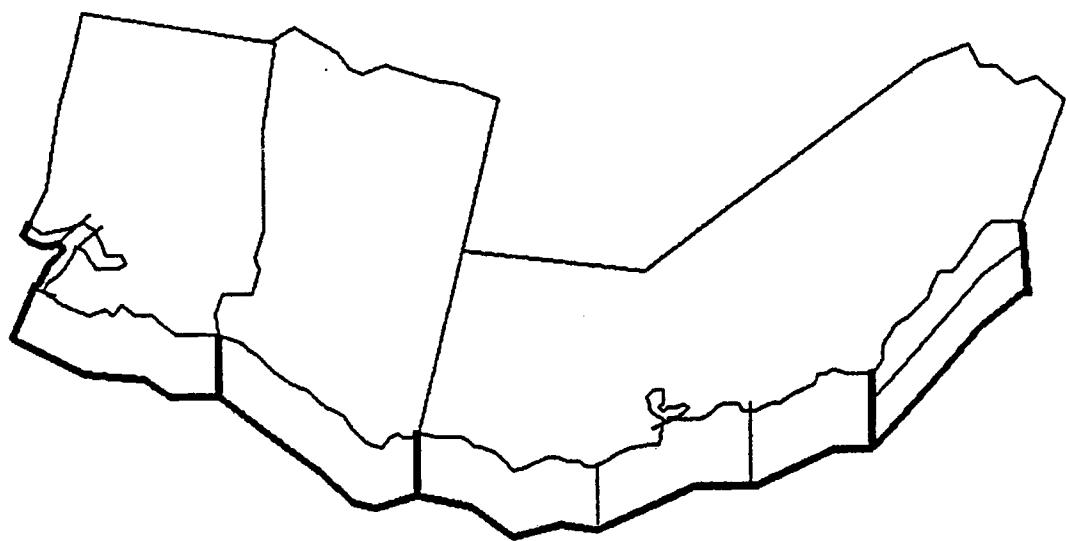
0400      518 kHz      NAVTEX (C)      F      English  
0800  
1200  
1600  
2000  
0000

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**BASIC MARINE AREAS**  
NATIONAL WEATHER SERVICE  
ALASKA REGION  
ALASKAN WATERS







**BASIC MARINE AREAS**  
**NATIONAL WEATHER SERVICE**  
**WESTERN REGION**  
**PACIFIC REGION**  
**PACIFIC SEABOARD**



**Greenland**

	<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
GREENLAND RADIO (May 97)	0200 1040 1530 2115 (Mon-Sat)	570 kHz 650 kHz 720 kHz 810 kHz 900 kHz	Voice(A3E)		F	English
	0200 1040 1530 2115 (Mon-Sat)	90.5 MHz 92 MHz 95 MHz 95.5 MHz 96 MHz 96.25 MHz 97 MHz	Voice(F3E)		F	English
	0200 1130 1625 2145 (Sun, Hol)	570 kHz 650 kHz 720 kHz 810 kHz 900 kHz	Voice(A3E)		F	English
	0200 1130 1625 2145 (Mon-Sat)	90.5 MHz 92 MHz 95 MHz 95.5 MHz 96 MHz 96.25 MHz 97 MHz	Voice(F3E)		F	English

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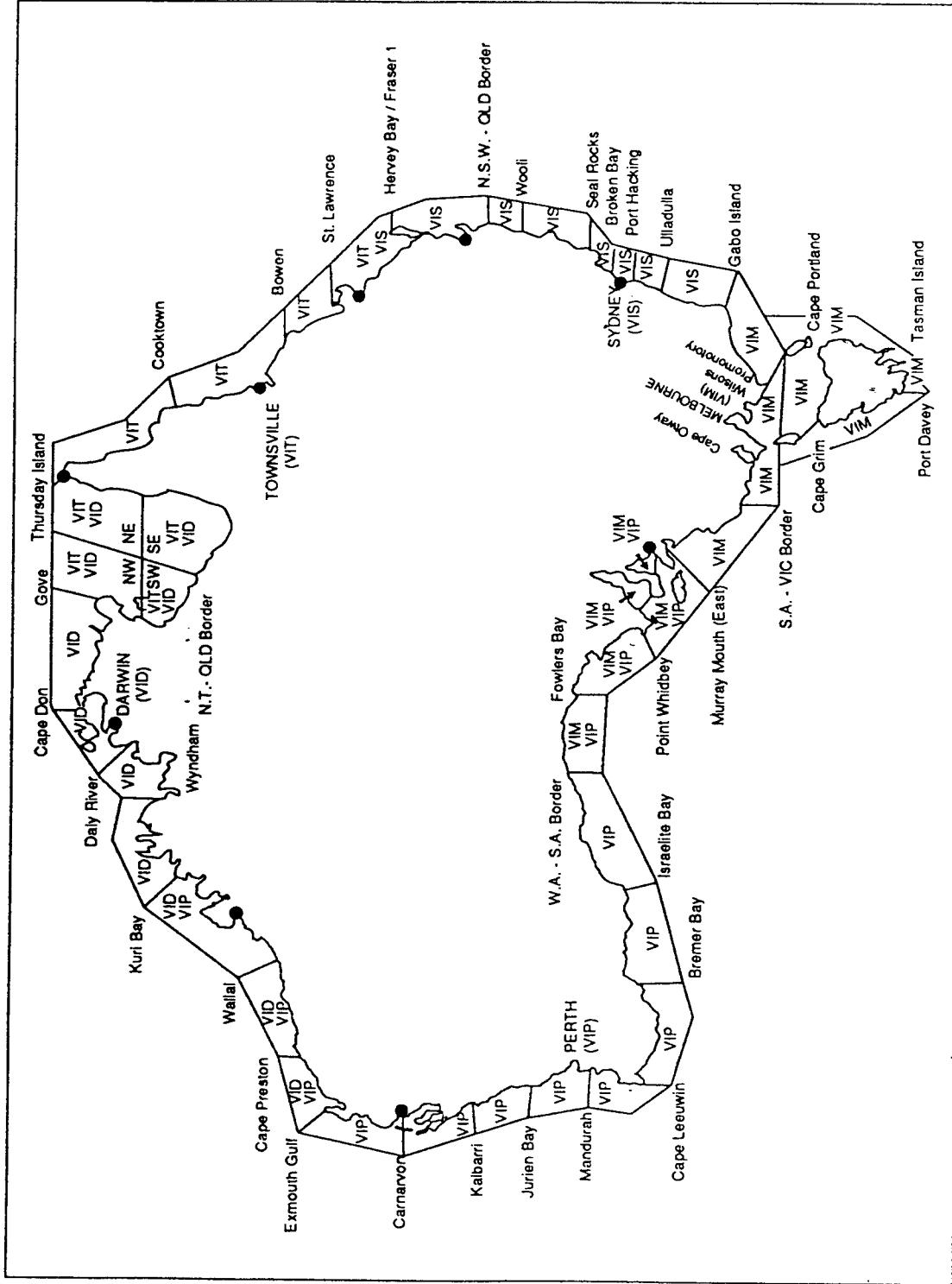


	<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
TOWNSVILLE, QUEENSLAND (Apr 97)	(VIT)	0948 2248	420.5 kHz Morse(A1A)		F, S, W	English
		0948 2248	4318 kHz Morse(A1A)		F, S, W	English
		0033 0633 1033 1233 1633 2033	8452 kHz Morse(A1A)  2201 kHz Voice(J3E)		F, S, W	English
		0033 1233	2201 kHz 4426 kHz 6507 kHz 8176 kHz  Voice (J3E)		F, S, W	English
		0303 0703 2103	2201 kHz 4426 kHz 6507 kHz 8176 kHz  Voice(J3E)		F, S	English

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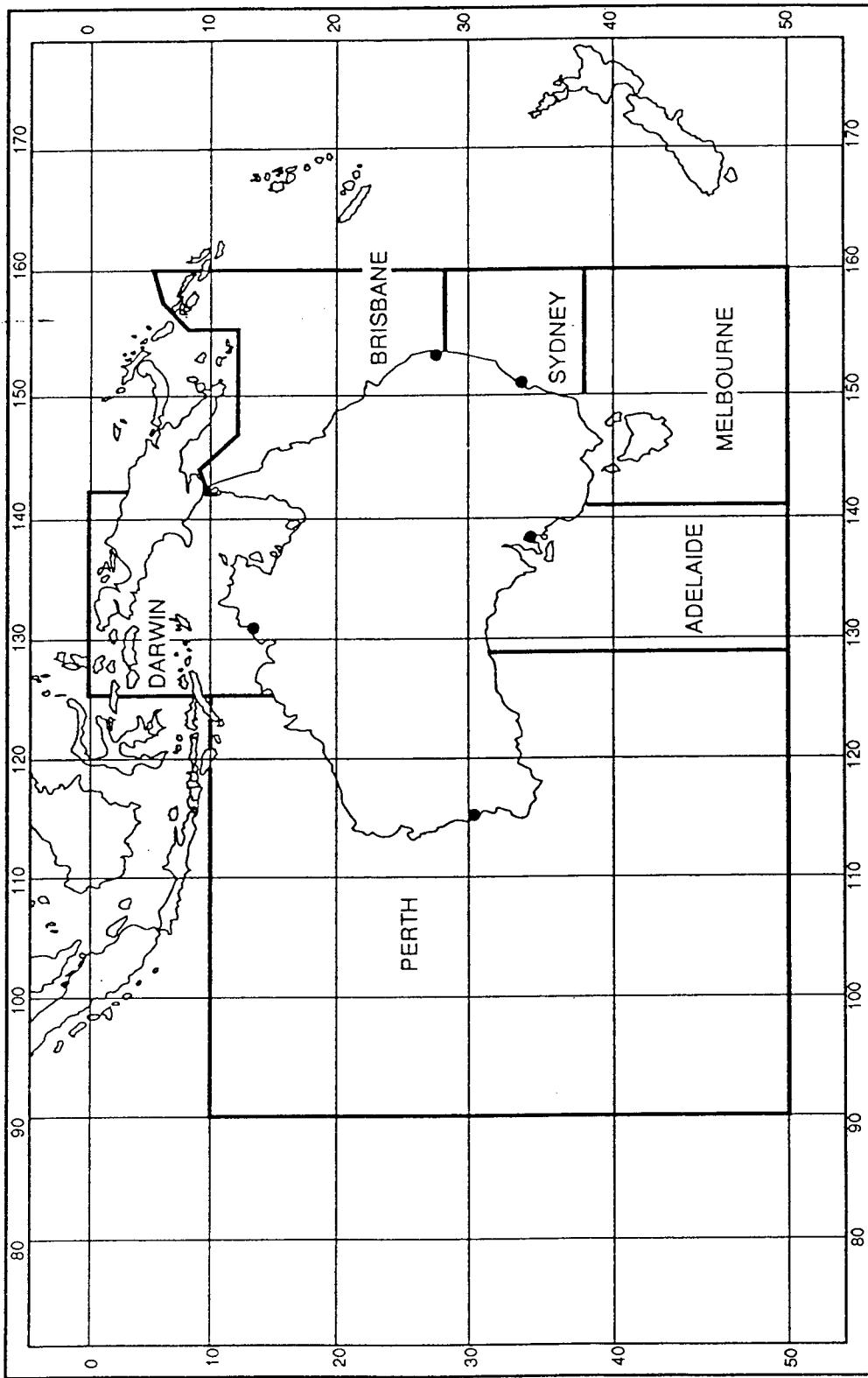
AUSTRALIA - AUSTRALIE

COASTAL WATERS FORECAST AREAS - ZONES DE PREVISIONS POUR LES EAUX COTIERES



AUSTRALIA - AUSTRALIE

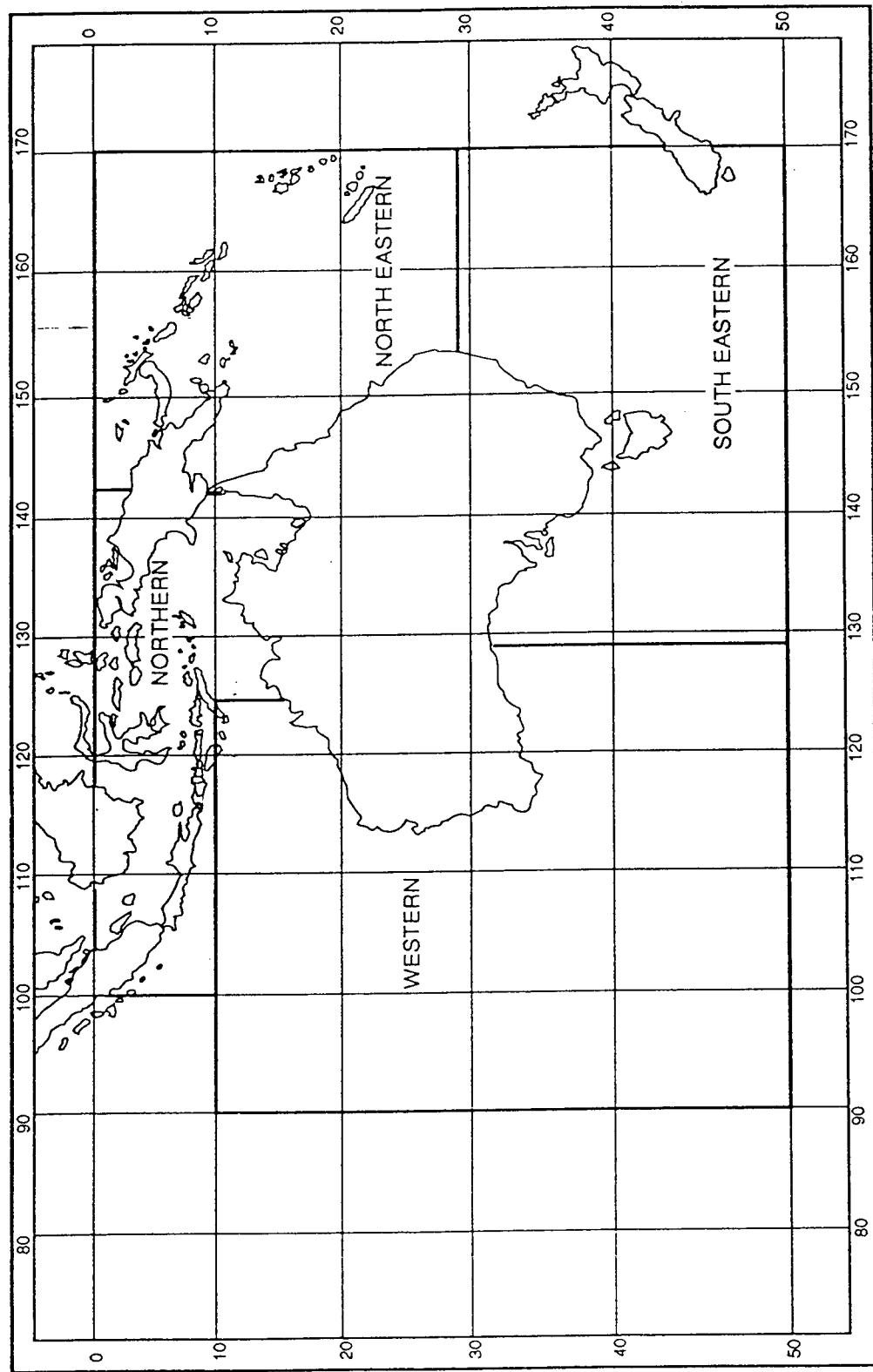
GALE/STORM WARNING AREAS - ZONES D'AVIS DE COUP DE VENT OU DE TEMPETE





AUSTRALIA - AUSTRALIE

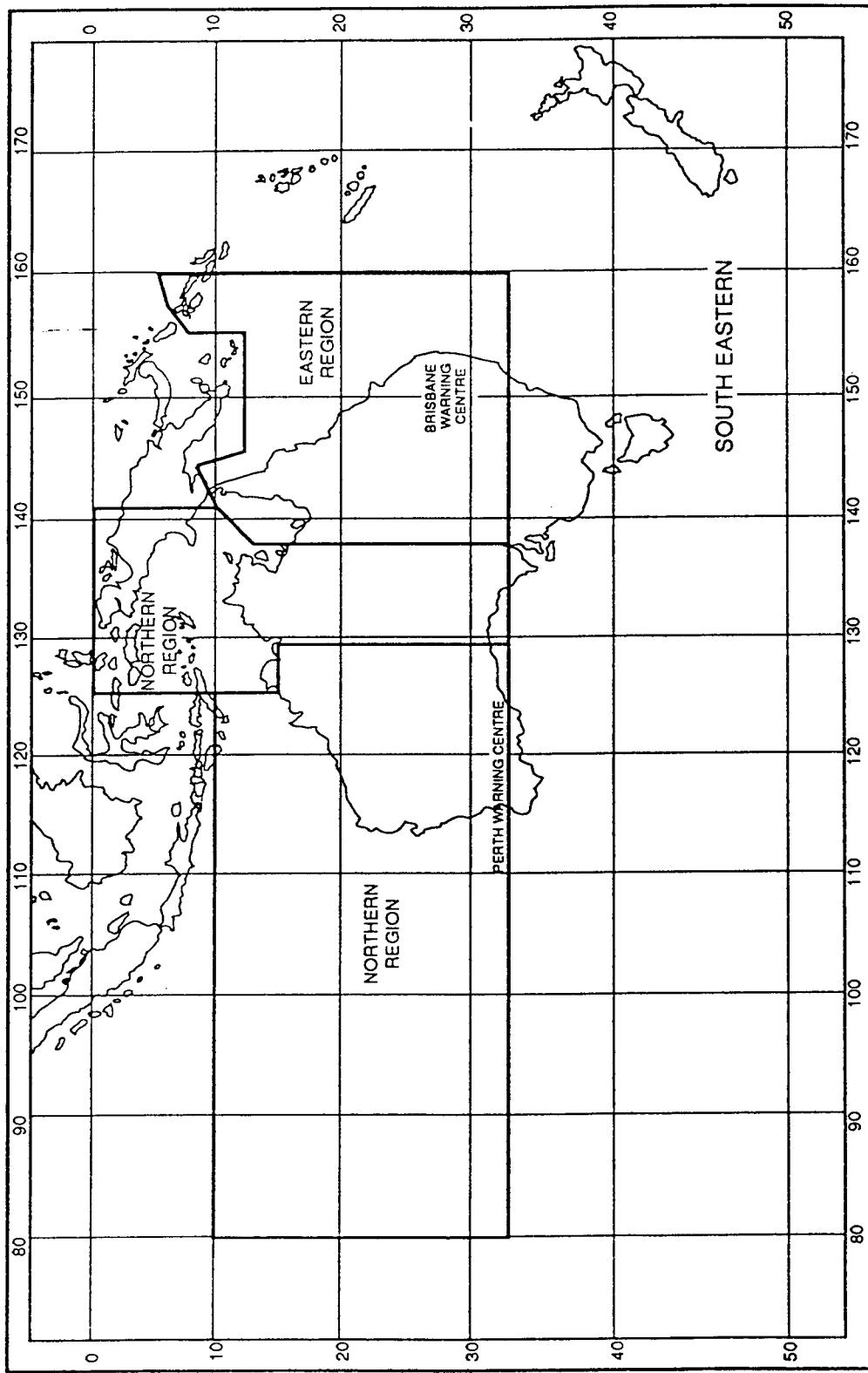
FORECAST AREAS FOR SHIPPING ON THE HIGH SEAS - ZONES DE PREVISION POUR LA NAVIGATION EN HAUTE MER





AUSTRALIA - AUSTRALIE

TROPICAL CYCLONE WARNING AREAS - ZONES D'AVIS DE CYCLONES TROPICAUX



# SOUTH-WEST PACIFIC - REGION V

## Hawaiian Islands

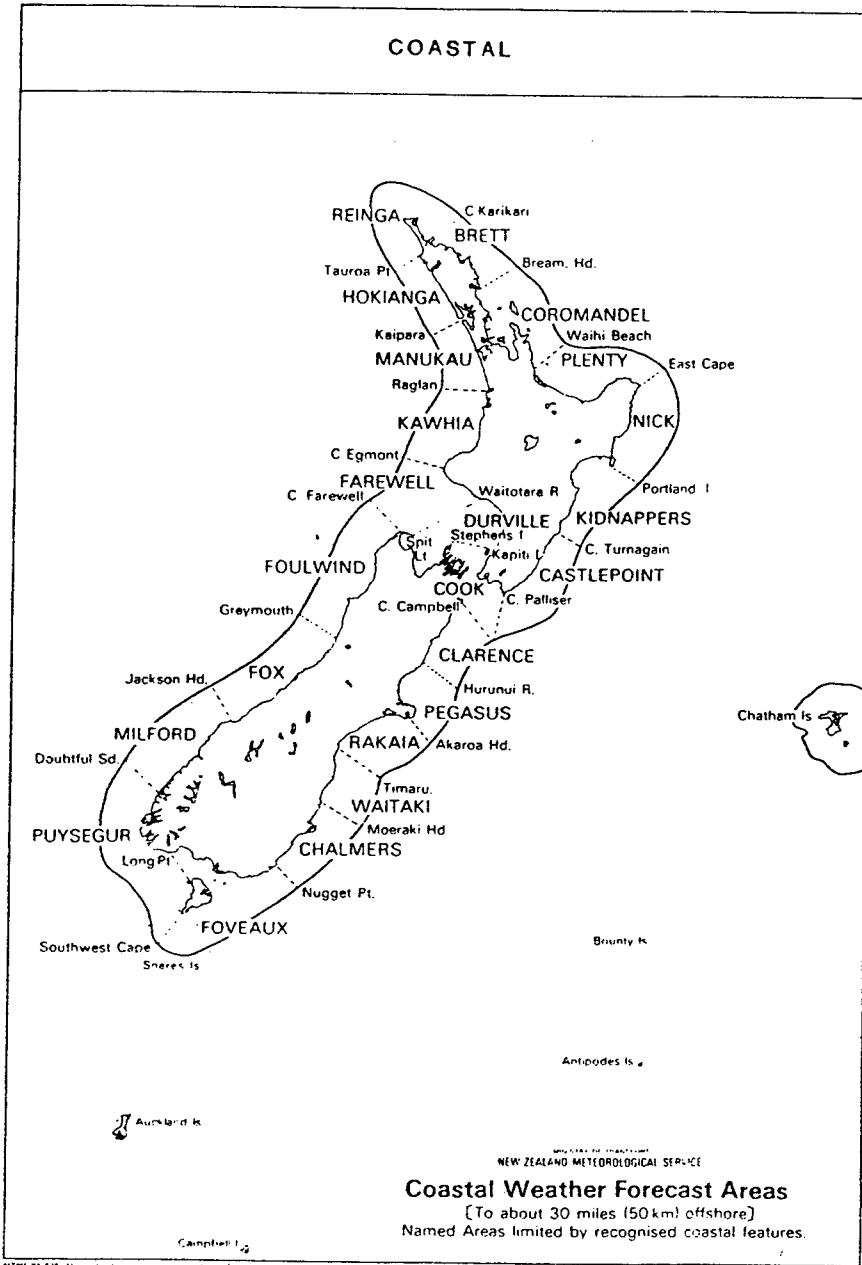
	<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
HONOLULU, HI (May 97)	(NMO)	0500 1700	157.100 MHz (Ch 22A)	Voice(F3E)	F	English
HONOLULU, HI (May 97)	(0)	0040 0440 0840 1240 1640 2040	518 kHz	NAVTEX	F	English

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
WELLINGTON (Oct 91) (25°S-50°S, 160°E-120°W)	(ZWL)	ON	417.5 kHz RECEIPT	Morse(A2A)	1 Kw	W	English
(New Zealand Coastal Waters)		0203	2153 kHz	Voice(H3E/ J3E)	1 Kw	F	English
		0803	2423 kHz		1 Kw		
		2003	4417 kHz		1 Kw		
		0503	2153 kHz	Voice(H3E/ J3E)	1 Kw	F, S, W	English
		1103	2423 kHz		1 Kw		
		1903	4417 kHz		1 Kw		
		2303					
(Chatham Is. to & including New Zealand East Cape-Stewart Is.)		0403	2153 kHz	Voice(H3E/ J3E)	1 Kw	F, S, W	English
		1003	2423 kHz		1 Kw		
		2203	4417 kHz		1 Kw		

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NEW ZEALAND - NOUVELLE-ZELANDE

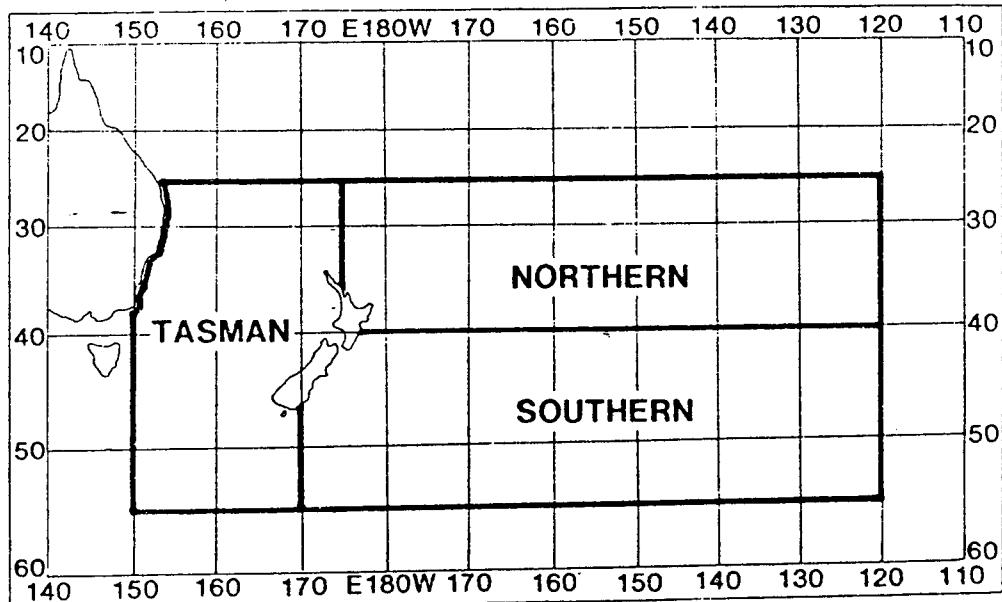
WEATHER FORECAST AREAS - ZONES DE PREVISION



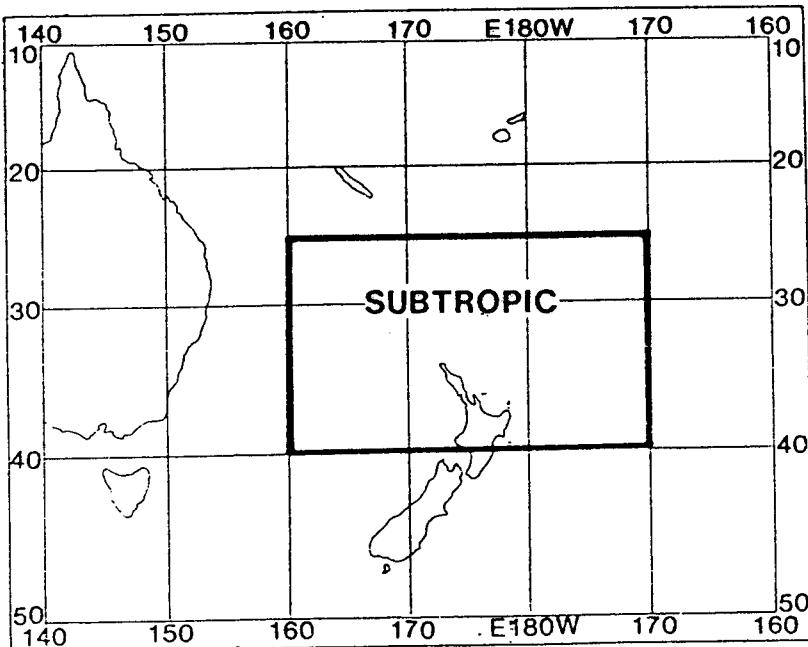
NEW ZEALAND - NOUVELLE-ZELANDE

WEATHER FORECAST AREAS - ZONES DE PREVISION

OCEANIC



SUBTROPIC



**Vanuatu**

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
PORT VILA (Oct 91)	(YJM)	2133	4385.3 kHz (2182 kHz)	Voice(J3E)	500 W	F, S, W	English/ French/ Bislama
		0533	4385.3 kHz (6215 kHz)	Voice(J3E)	500 W	F, S, W	English/ French/ Bislama

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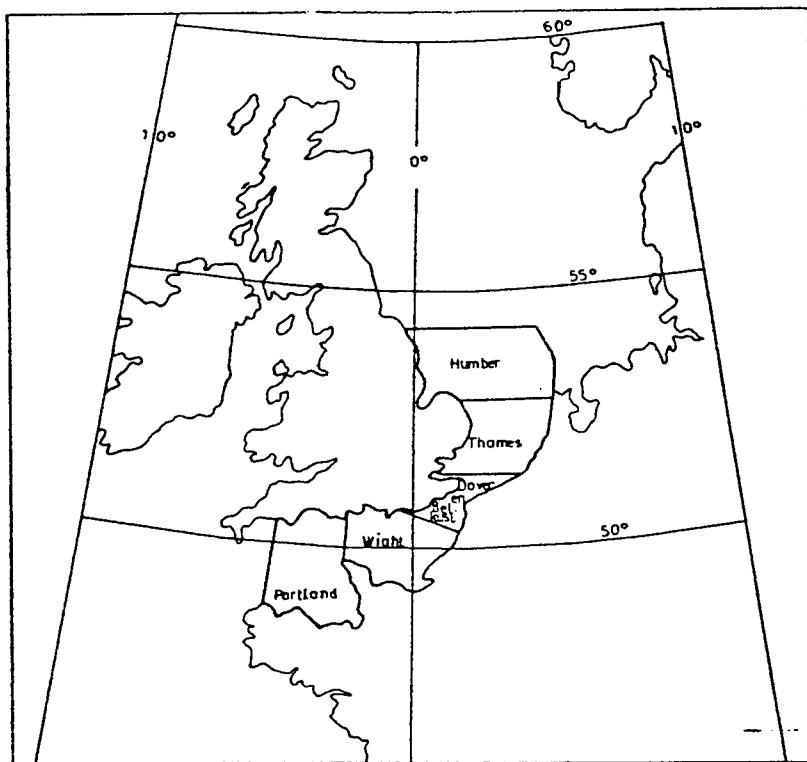
# EUROPE - REGION VI

## Belgium

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
OOSTENDE RADIO (May 97) 51 11 N 02 48 E	(T)	0248 0448 1048 1448 1848 2248	518 kHz	NAVTEX		F	English
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OOSTENDE RADIO (May 97) 51 11 N 02 48 E	(M)	0200 0600 1000 1400 1800 2200	518 kHz	NAVTEX		F	English
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B E L G I U M - B E L G I Q U E

WEATHER FORECAST AREAS - ZONES DE PREVISION



**Bulgaria**

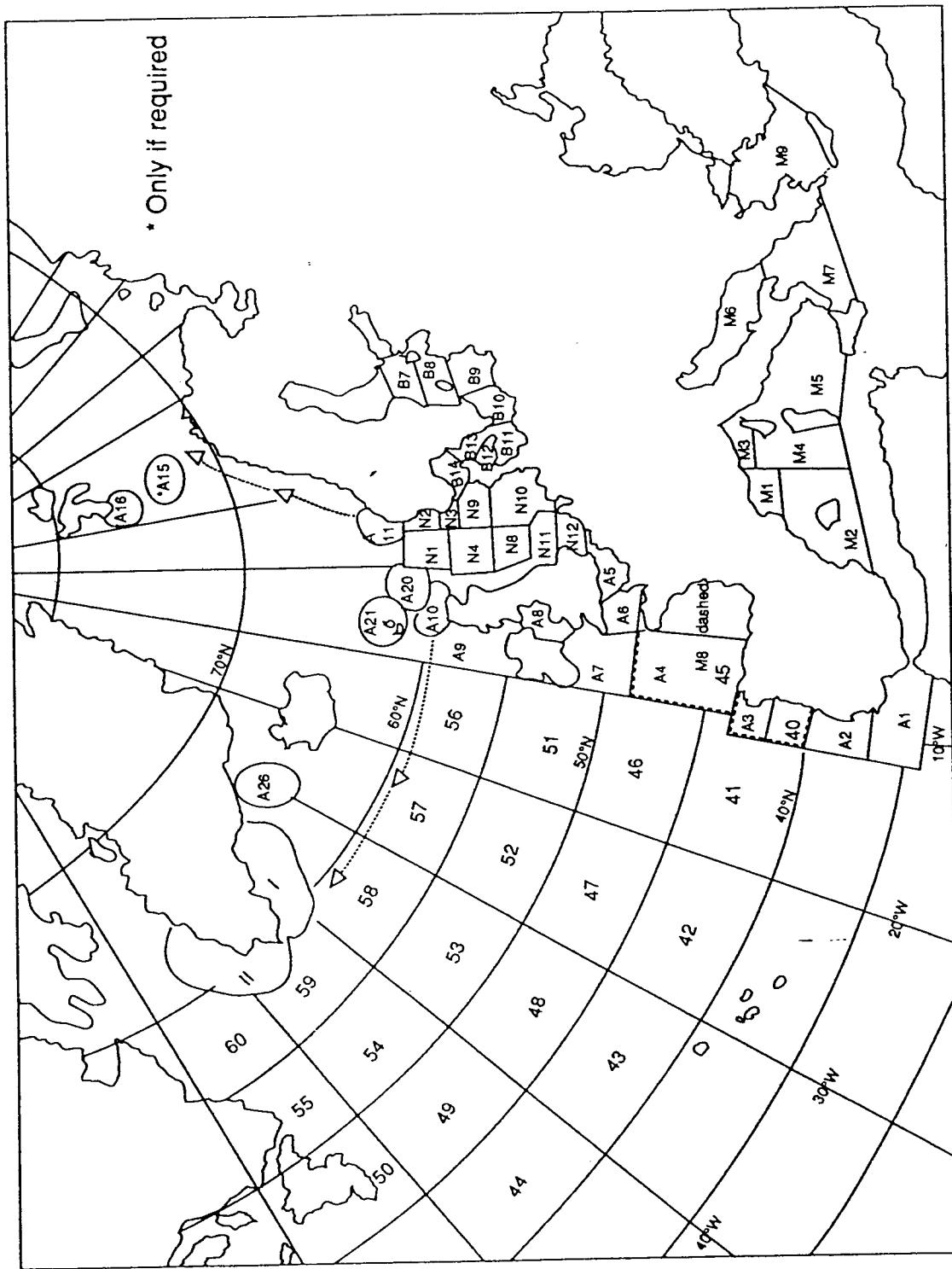
		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
VARNA (May 97)	(J)	0130	518 kHz	NAVTEX		F	English
43 04 N		0530					
27 46 E		0930					
		1330					
		1730					
		2130					

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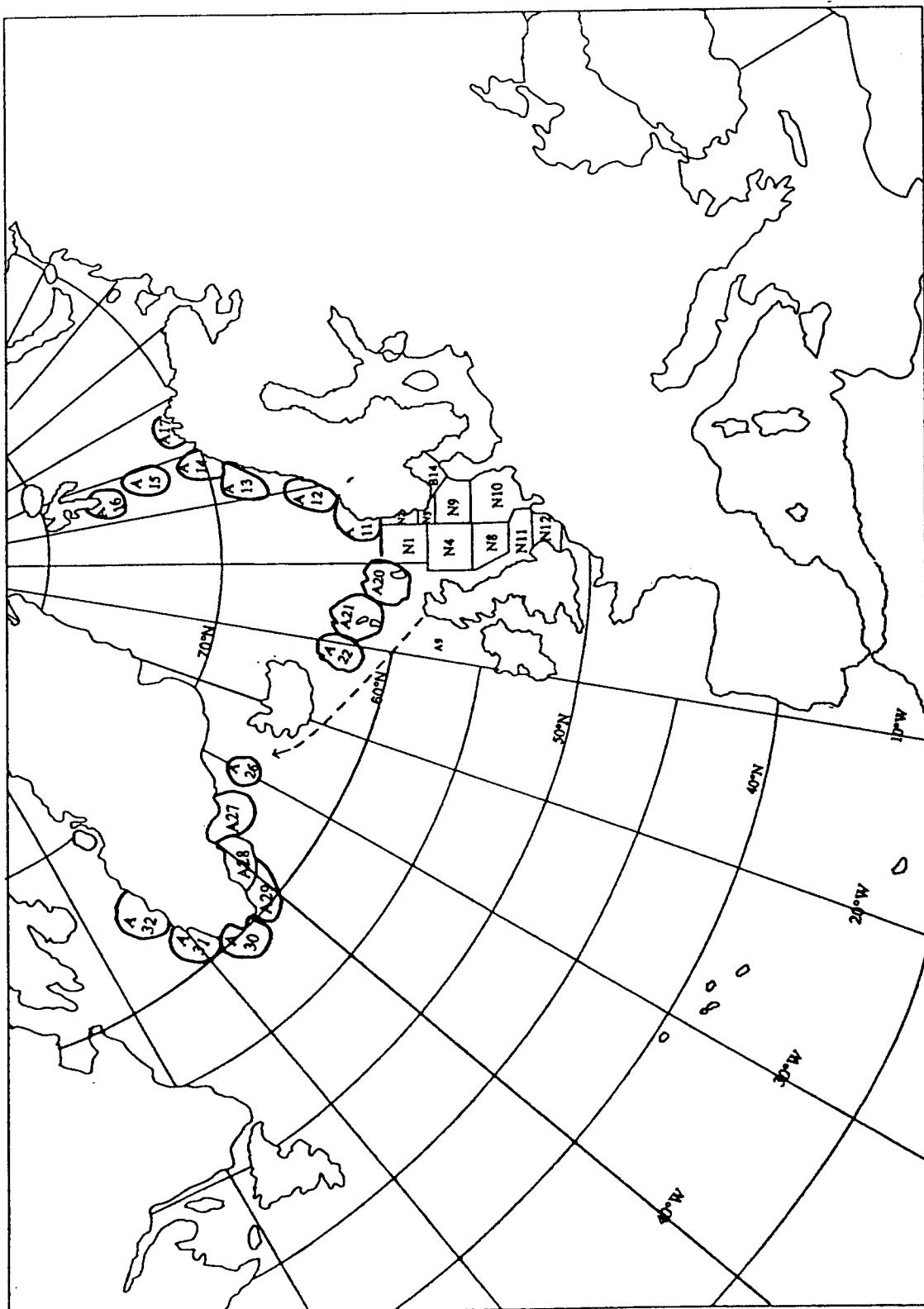
GERMANY - ALLEMAGNE

WEATHER FORECAST AREAS - ZONES DE PREVISION





GERMANY - ALLEMAGNE  
WEATHER FORECAST AREAS - ZONES DE PREVISION





## Greece

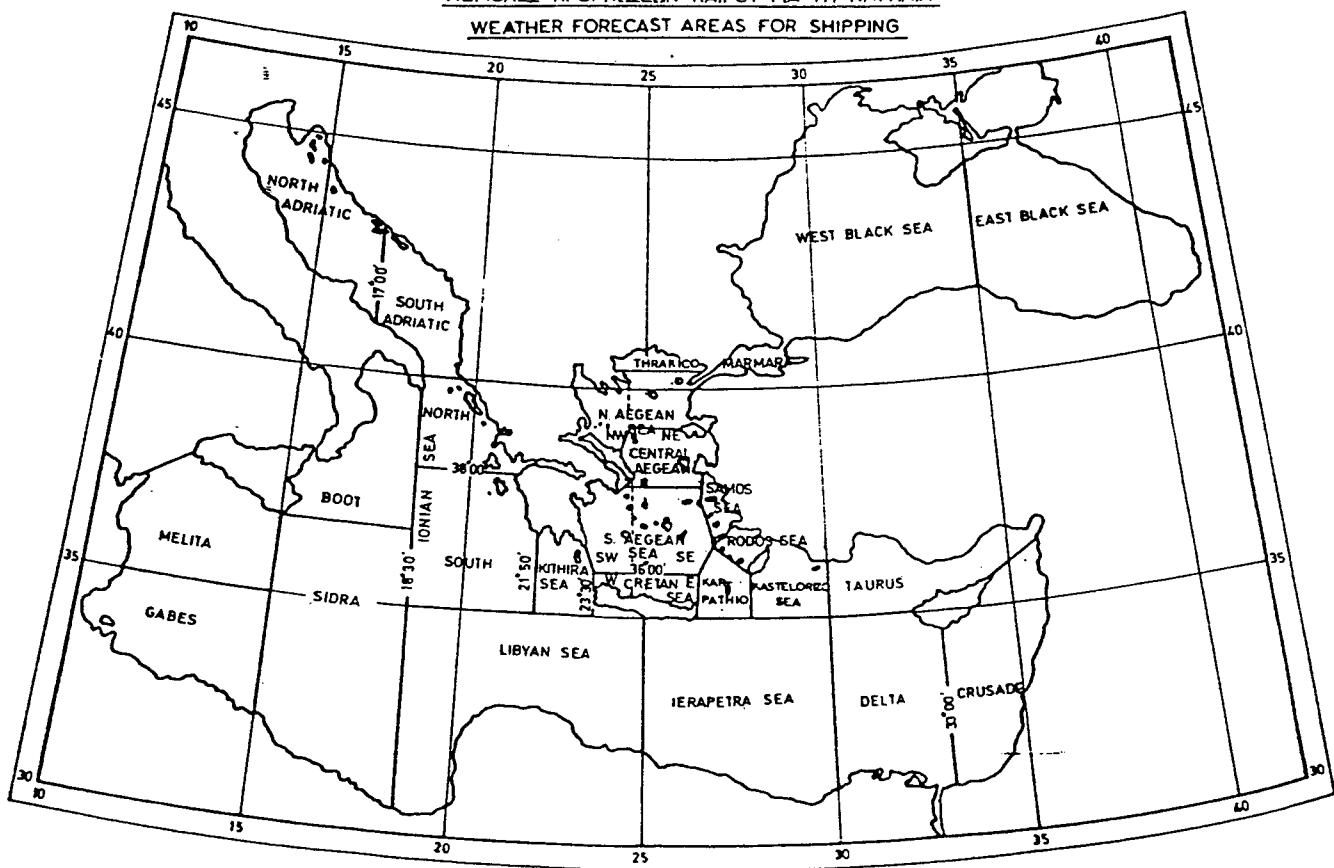
		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
LIMNOS  (May 97) 39 52 N 25 04 E	(L)	0150 0550 0950 1350 1750 2150	518 kHz	NAVTEX		F	English/ Greek
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IRAKLION  (May 97) 35 20 N 25 07 E	(H)	0110 0510 0910 1310 1710 2110	518 kHz	NAVTEX		F	English/ Greek
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KERKYRA  (May 97) 39 37 N 19 55 E	(K)	0140 0540 0940 1340 1740 2140	518 kHz	NAVTEX		F	English/ Greek
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G R E E C E - G R E C E

WEATHER FORECAST AREAS - ZONES DE PREVISION

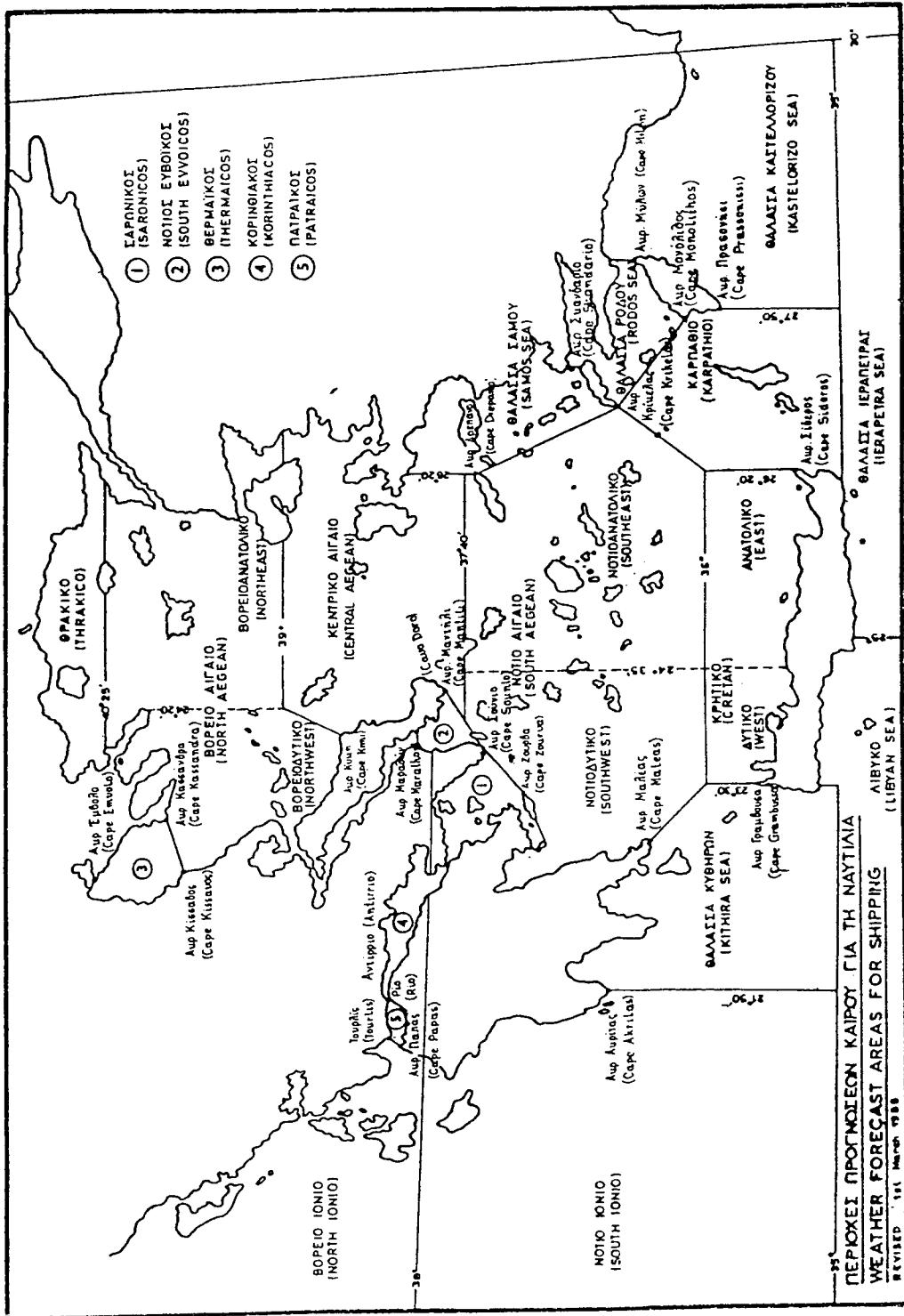
ΠΕΡΙΟΧΕΣ ΠΡΟΓΝΩΣΕΩΝ ΚΑΙΡΟΥ ΓΙΑ ΤΗ ΝΑΥΤΙΛΙΑ

WEATHER FORECAST AREAS FOR SHIPPING



G R E E C E - G R E C E

WEATHER FORECAST AREAS - ZONES DE PREVISION



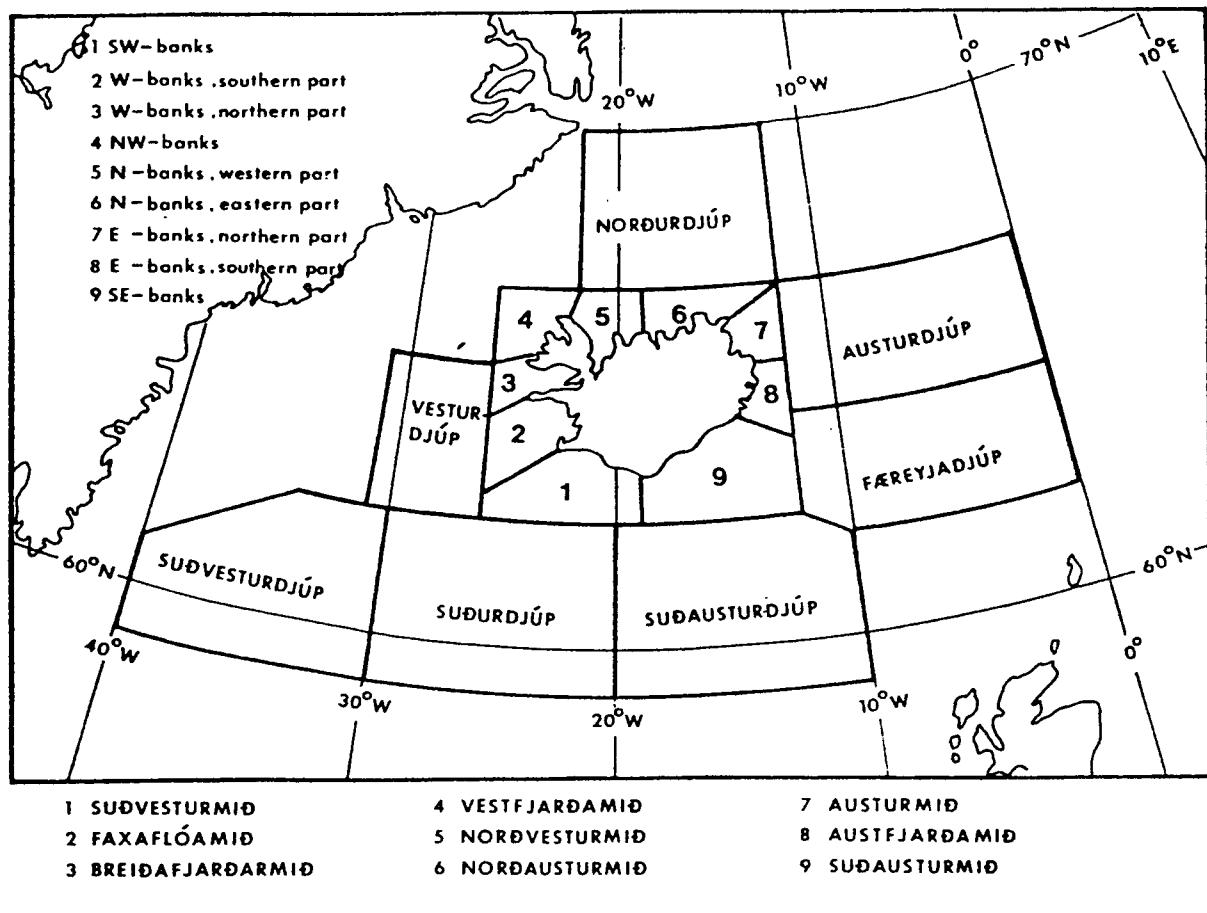
Iceland

	<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
REYKJAVIK RADIO (May 97) 64 05 N 21 51 W	(R)	0318 0718 1118 1518 1918 2318	518 kHz	NAVTEX	F	English

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ICE LAND - ISLANDE

WEATHER FORECAST AREAS - ZONES DE PREVISION

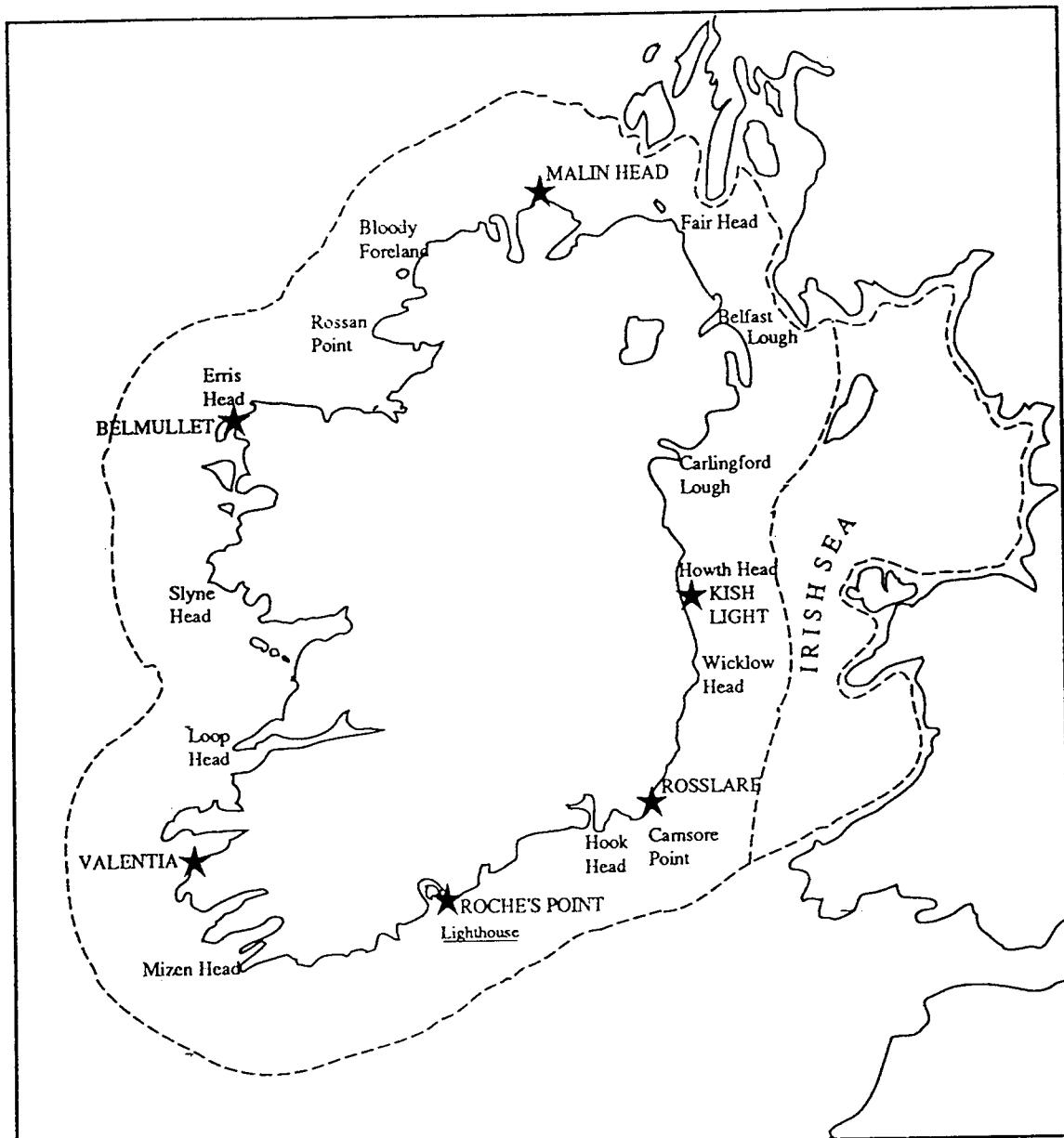




IRELAND - IRLANDE

WEATHER FORECAST AREAS - ZONES DE PREVISION

SEA AREA FORECASTS  
IRISH METEOROLOGICAL SERVICE

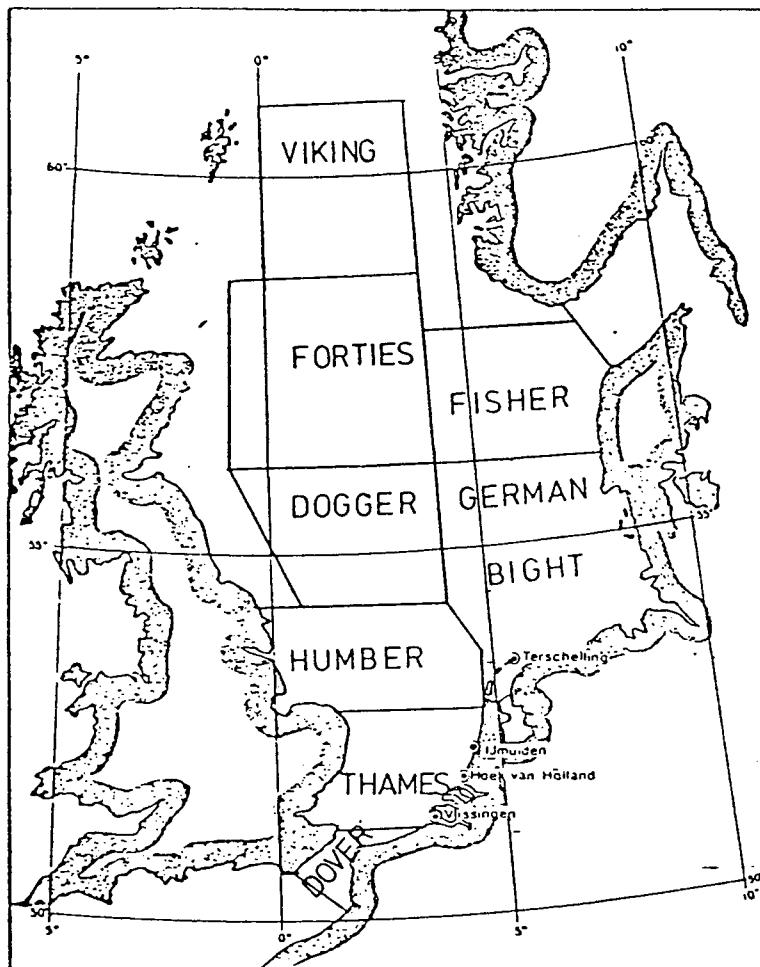


Scale 0      100      200 Kilometres



N E T H E R L A N D S - P A Y S - B A S

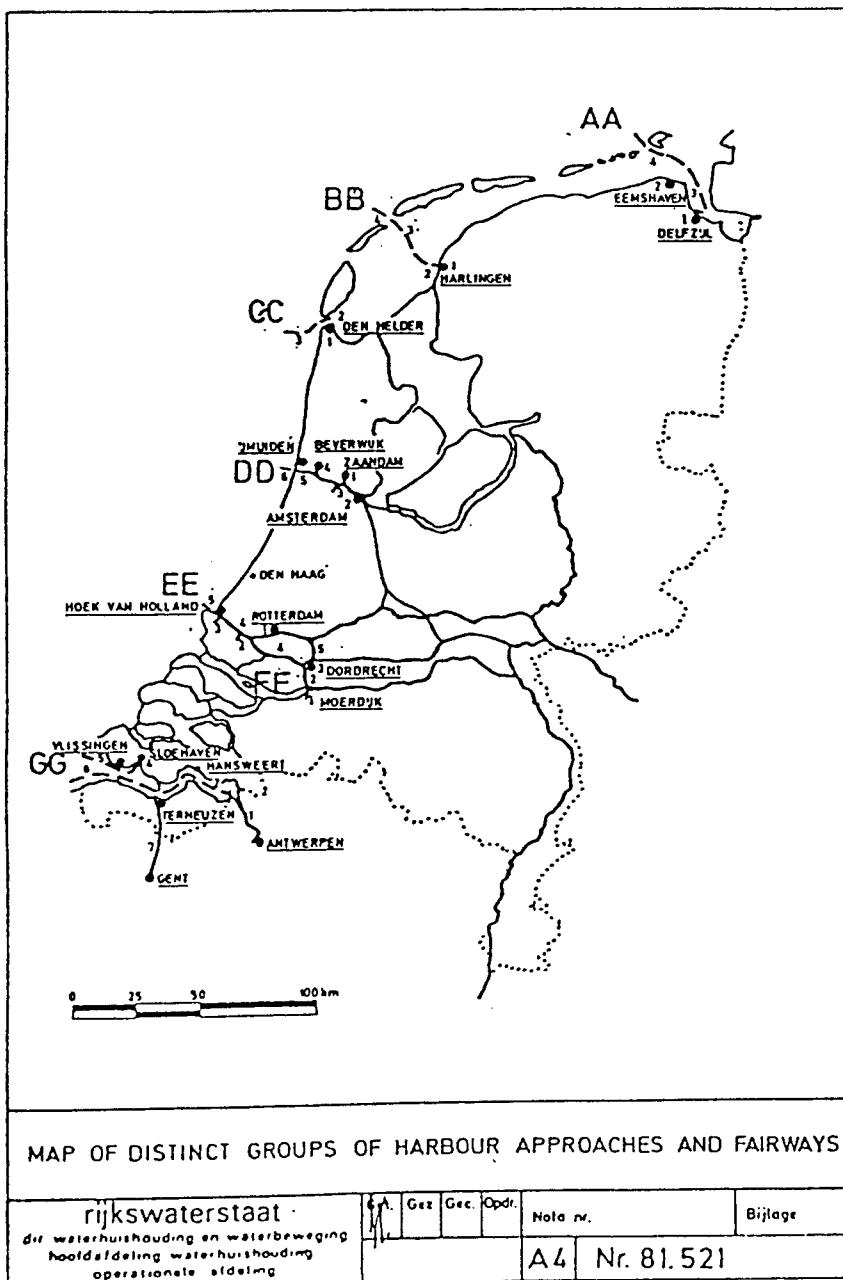
WEATHER FORECAST AREAS - ZONES DE PREVISIONS





M E T H E R L A N D S - P A Y S - B A S

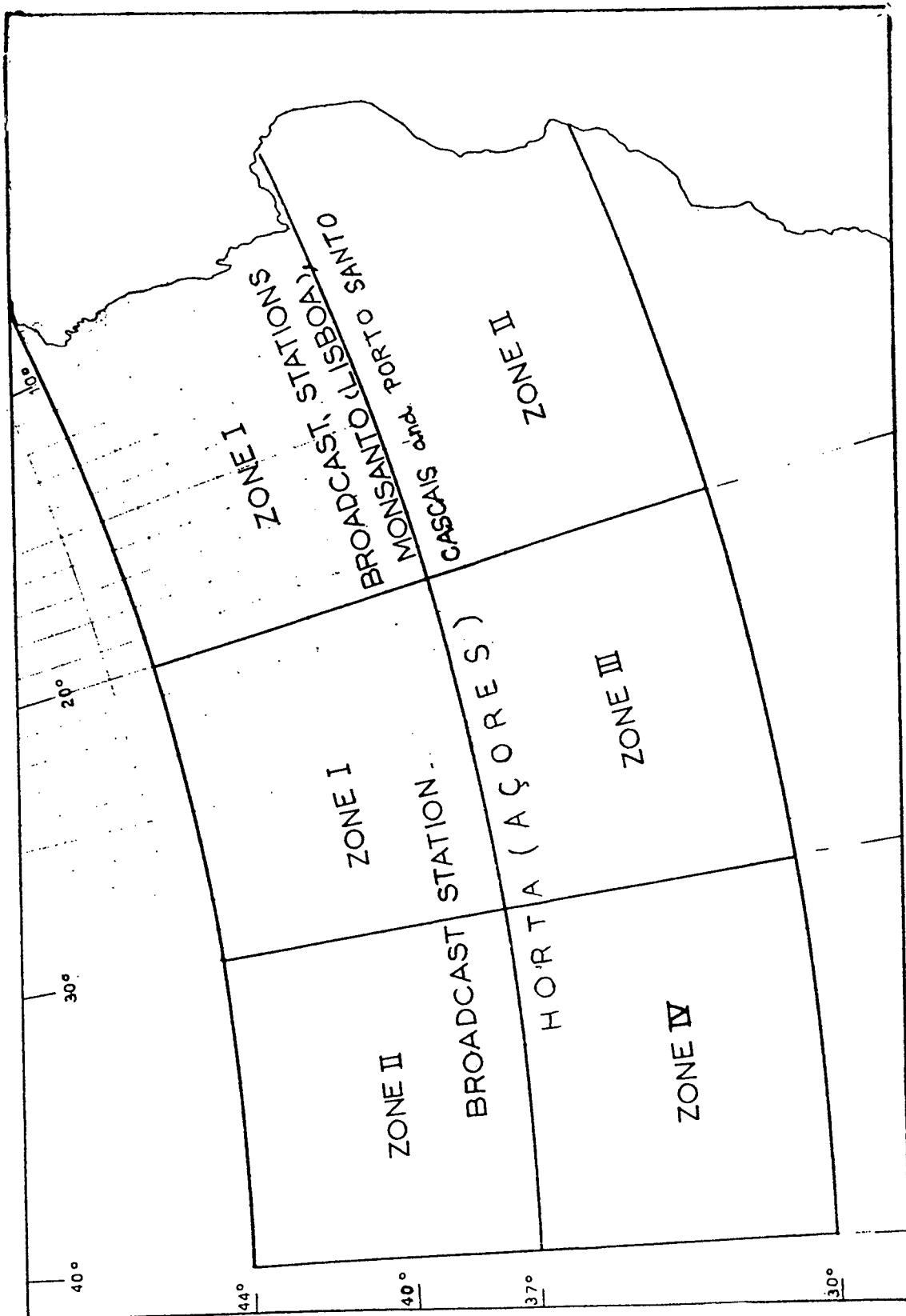
Fairway sections and areas for ice reports  
Passages et zones pour les messages de glace





PORtUGAL and AZORES - PORTUGAL et AÇORES

WEATHER FORECAST AREAS - ZONES DE PRÉVISION



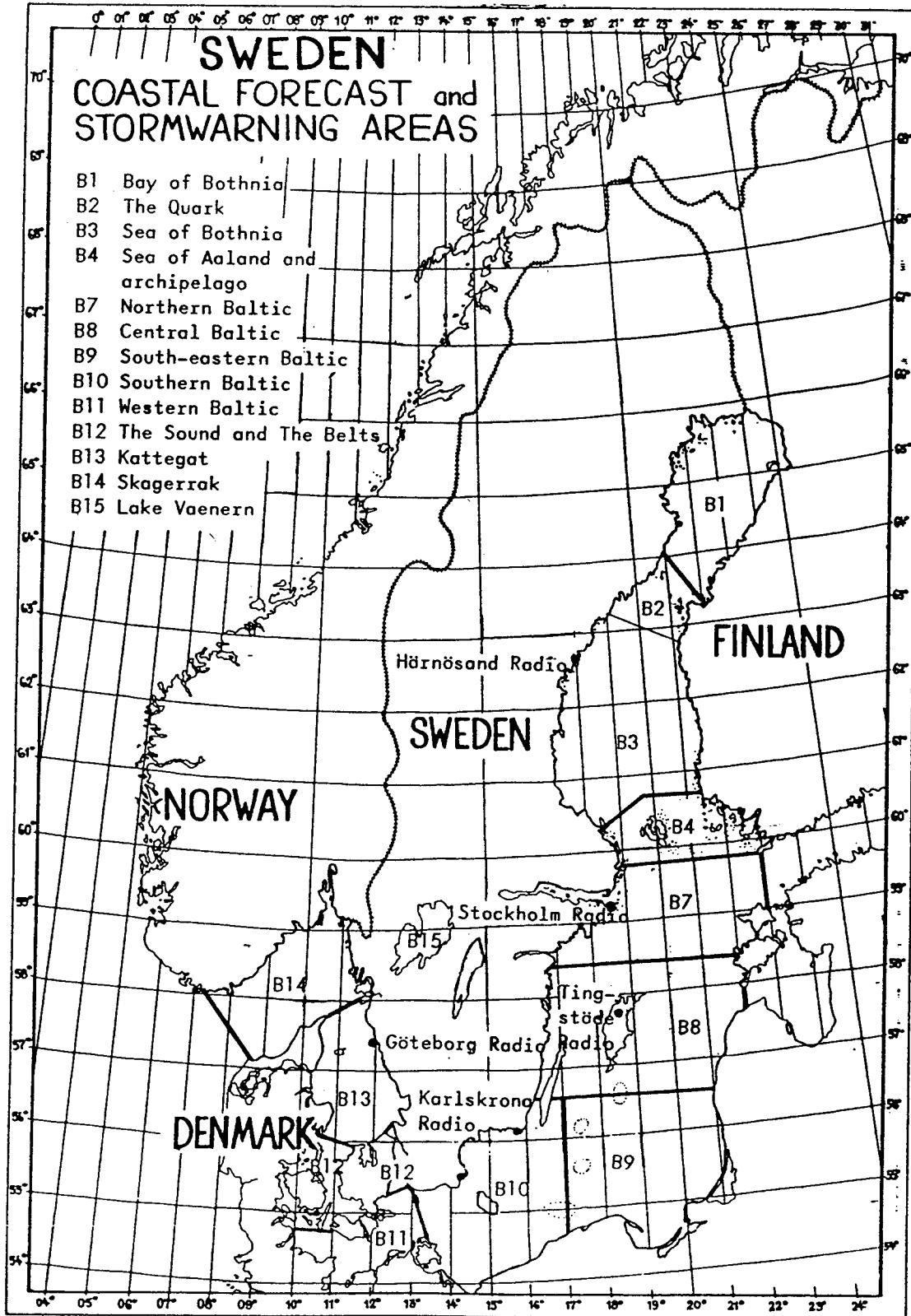


**Sweden**

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
STOCKHOLM RADIO (Aug 91)	(SDJ)	0900 2100	416 kHz	Morse(A1A)	2 Kw	F	English
		1300	416 kHz	Morse(A1A)	2 Kw	I	English
		0933 2133	1771 kHz 1778 kHz	Voice(J3E)	1.3 Kw 500 W	F	English/ Swedish
		1333	1771 kHz 1778 kHz	Voice(J3E)	1.3 Kw 500 W	I	English/ Swedish
	ON RECEIPT		416 kHz	Morse(A1A)	2 Kw	W	English
	ON RECEIPT		1771 kHz 1778 kHz	Voice(J3E)	1.3 Kw 500 W	W	English/ Swedish
<hr/>							
HAERNOESAND RADIO (H) (May 97) 64 28 N 21 36 E		0000 0400 0800 1200 1600 2000	518 kHz	NAVTEX		F	English
<hr/>							
STOCKHOLM RADIO (May 97) 55 29 N 14 19 E	(J)	0300 0730 1130 1500 1930 2330	518kHz	NAVTEX		F	English
<hr/>							
STOCKHOLM RADIO (May 97) 59 16 N 18 43 E	(U)	0030 0430 0830 1230 1630 2030	518 kHz	NAVTEX		F	English
<hr/>							

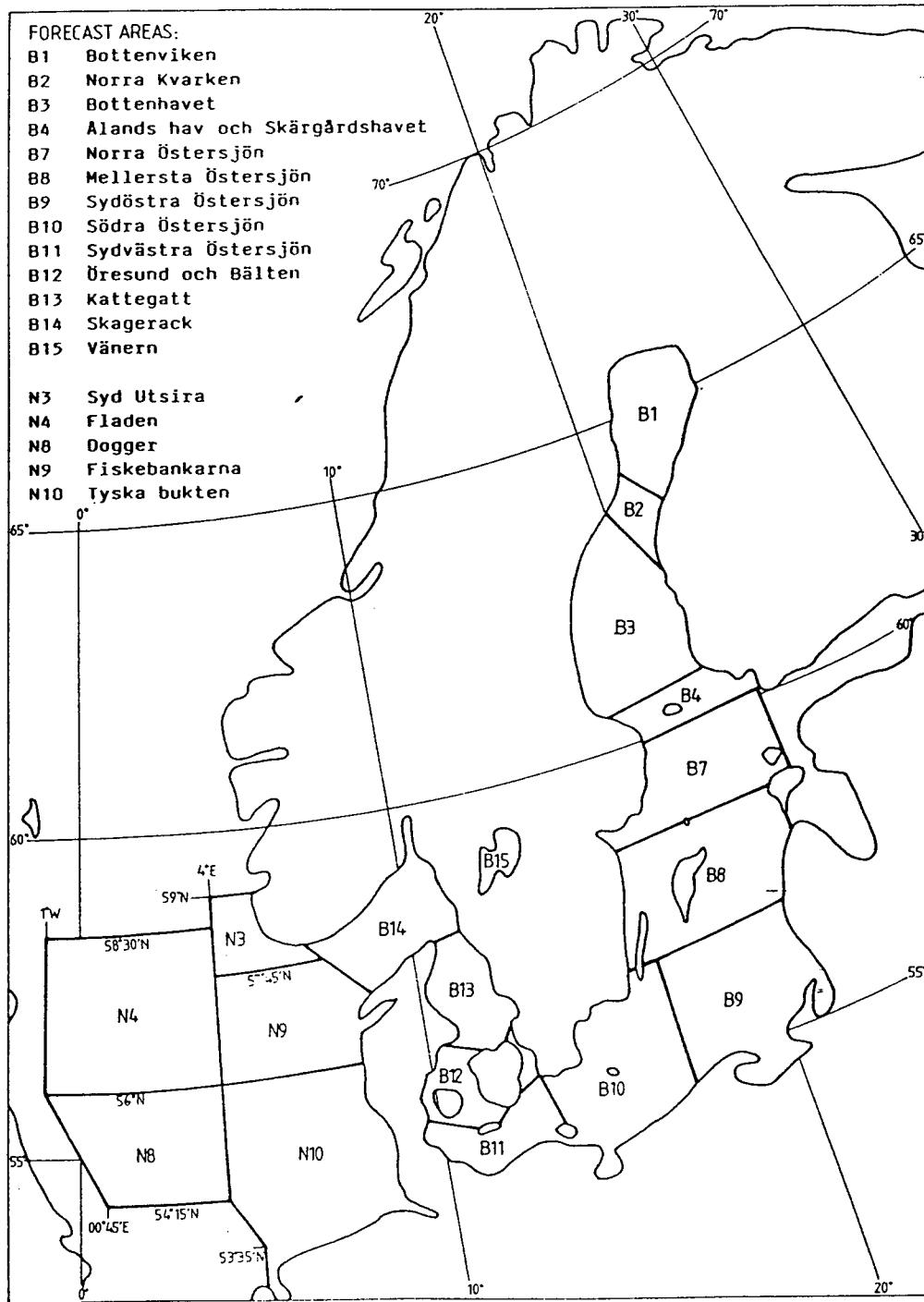
S W E D E N - S U E D E

COASTAL FORECAST AND STORM WARNING AREAS  
ZONES CÔTIÈRES POUR LES PRÉVISIONS ET LES AVIS DE TEMPÊTE



S W E D E N - S U E D E

WEATHER FORECAST AREAS - ZONES DE PREVISION





## S W E D E N - S U E D E

### Regions for ice reports, (AA-UU)

AA	1 Karlsborg - Malören	1 Karlsborg - Malören
	2 Sea area off Malören	2 Zone maritime au large de Malören
	3 Luleå - Björnlack	3 Luleå - Björnlack
	4 Björnlack - Farstugrunden	4 Björnlack - Farstugrunden
	5 Sea area off Farstugrunden	5 Zone maritime au large de Farstugrunden
	6 Luleå - Rödkallen	6 Luleå - Rödkallen
	7 Rödkallen - Norstromsgrund	7 Rödkallen - Norströmsgrund
BB	1 Haraholmen - Nygrân	1 Haraholmen - Nygrân
	2 Sea area off Nygrân	2 Zone maritime au large de Nygrân
	3 Skelleftehamn - Gåsören	3 Skelleftehamn - Gåsören
	4 Sea area off Gåsören	4 Zone maritime au large de Gåsören
	5 Sea area off Bjuröklubb	5 Zone maritime au large de Bjuröklubb
	1 NE of Nordvalen	1 NE de Nordvalen
	2 SW of Nordvalen	2 SW de Nordvalen
CC	3 Västra Kvarken (W of Holmöarna)	3 Västra Kvarken (W de Holmöarna)
	4 Umeå - Väktaren	4 Umeå, - Väktaren
	5 SE of Väktaren	5 SE de Väktaren
	6 Sea area NE and SE of Sydostbrottet	6 Zone maritime NE et SE de Sydostbrottet
	1 Fairway to Husum	1 Passage vers Husum
	2 Ornsköldsvik - Hörnskaten	2 Ornsköldsvik - Hörnskaten
	3 Hörnskaten - Skagsudde	3 Hörnskaten - Skagsudde
DD	4 Sea area off Skagsudde	4 Zone maritime au large de Skagsudde
	5 Fairway W of Ulvöarna	5 Passage à l'ouest de Ulvöarna
	6 Sea area off Ulvöarna	6 Zone maritime au large de Ulvöarna
	1 Angermanälven above Sandö bridge	1 Angermanalven en amont du pont de Sandö
	2 Angermanälven below Sandö bridge	2 Angermanalven en aval du pont de Sandö
	3 Härnösand - Härnön	3 Härnösand - Härnön
	4 Sea area off Härnön	4 Zone maritime au large de Härnön
EE	5 Sundsvall - Draghällan	5 Sundsvall - Draghällen
	6 Draghällan - Astholmsudde - Brämön	6 Draghällan - Astholmsudde - Brämön
	7 Sea area off Astholmsudde	7 Zone maritime au large de Astholmsudde
	8 Sea area off Brämön	8 Zone maritime au large de Brämön

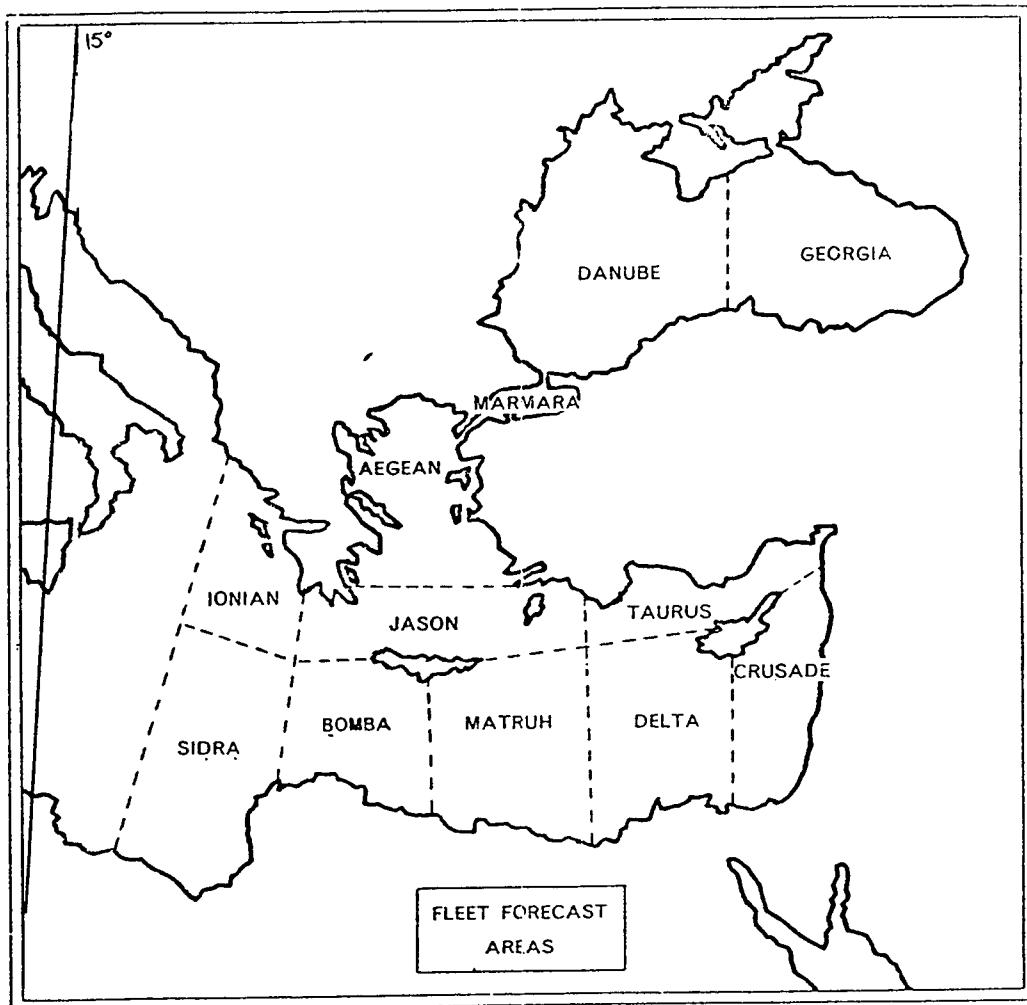
### Régions pour les messages de grace (AA-UU)

## Turkey

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
IZMIR (Feb 92)	(I)	0120 0520 0920 1320 1720 2120	518 kHz	NAVTEX		F	English
SAMSUN (May 97)	(E)	0040 0440 0840 1240 1640 2040	518 kHz	NAVTEX		F	English
ISTANBUL (May 97)	(D)	0030 0430 0830 1230 1630 2030	518 kHz	NAVTEX		F	English
ANTALYA (May 97)	(F)	0050 0450 0850 1250 1650 2050	518 kHz	NAVTEX		F	English

TURKEY - TURQUIE

WEATHER FORECAST AREAS - ZONES DE PREVISION



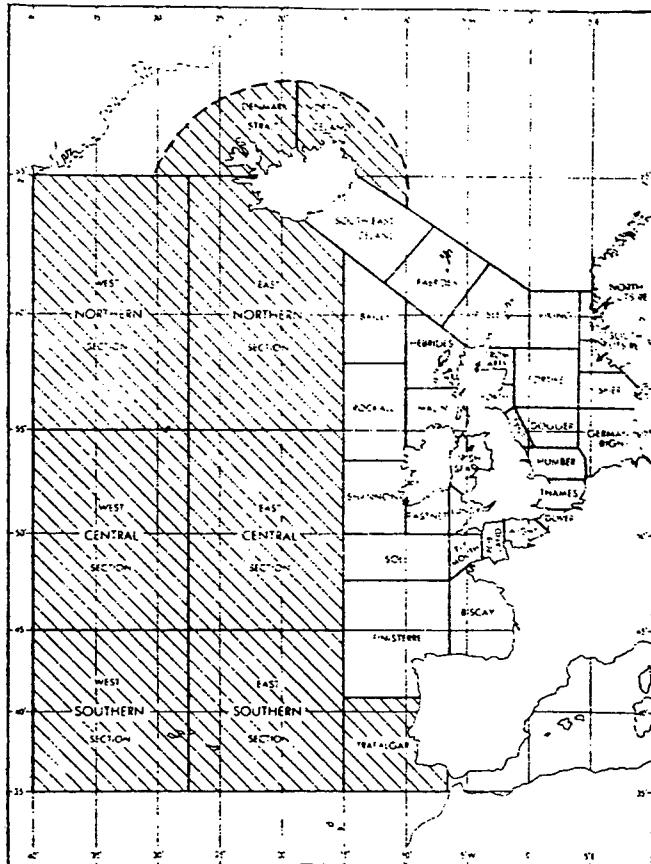


## United Kingdom

		<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
CULLERCOATS (May 97)	(G)	0048 0448 0848 1248 1648 2048	518 kHz	NAVTEX		F	English
NITON (May 97 )	(S)	0018 0418 0818 1218 1618 2018	518 kHz	NAVTEX		F	English
PORTRPATRICK (May 97)	(0)	0130 0530 0930 1330 1730 2130	518 kHz	NAVTEX		F	English

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND  
ROYAUME-UNI DE GRANDE-BRETAGNE ET D'IRLANDE DU NORD

WEATHER FORECAST AREAS - ZONES DE PREVISION



The named areas (Biscay, Forties, etc., but excluding Denmark Strait, North Iceland and Trafalgar, are those used in weather bulletins and gale warnings issued for coastal shipping by British Telecom International radio stations and the B.B.C. The areas Biscay, Finisterre, Trafalgar, Denmark Strait and North Iceland and those marked Northern, Central, Southern are used in the Atlantic Weather Bulletin broadcast by Portishead Radio for shipping on the high seas.

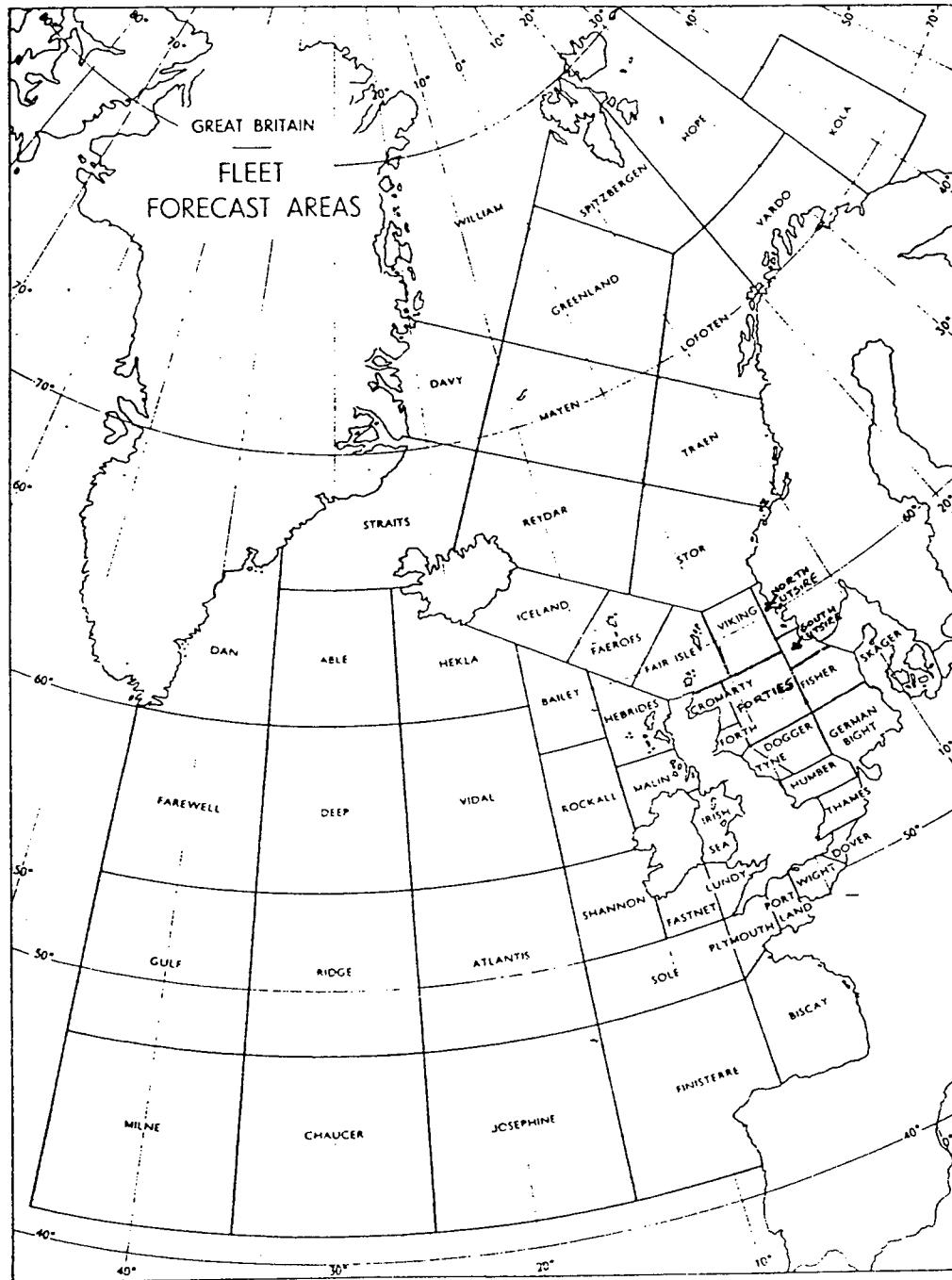
Weather within an estuary, and particularly the visibility there, may often be expected to differ from that forecast for the coastal sea area in which the estuary lies, though this will not necessarily be mentioned in the forecast.

Les zones indiquées (Biscay, Forties, etc., sauf Denmark Strait, North Iceland et Trafalgar, sont celles qui figurent dans les bulletins météorologiques et les avis de coup de vent destinés à la navigation côtière transmis par les stations radio de la British Telecom International et de la B.B.C. Les zones Biscay, Finisterre, Trafalgar, Denmark Strait et North Iceland et celles indiquées Northern, Central, Southern figurent dans le Bulletin météorologique de l'Atlantique, destiné à la navigation en haute mer, transmis par Portishead Radio.

Les conditions météorologiques dans un estuaire, en particulier la visibilité, peuvent souvent différer de celles qui sont prévues pour la zone côtière maritime dans laquelle se trouve l'estuaire, bien que cela ne soit pas forcément mentionné dans la prévision.

UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND  
ROYAUME-UNI DE GRANDE-BRETAGNE ET D'IRLANDE DU NORD

WEATHER FORECAST AREAS - ZONES DE PREVISION



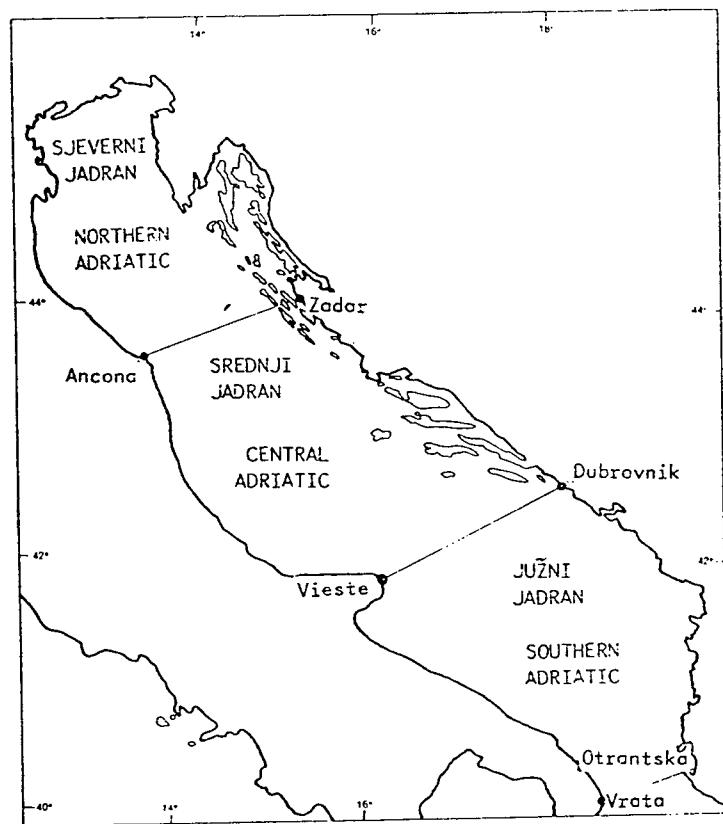
**CROATIA**

SPLIT	(Q)	<u>Time</u>	<u>Frequencies</u>	<u>Class</u>	<u>Power</u>	<u>Content</u>	<u>Language</u>
		0240	518 kHz	NAVTEX		F	English
(May 97)		0640					
43 30 N		1040					
16 29 E		1440					
		1840					
		2240					

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Y U G O S L A V I A - Y O U G O S L A V I E

WEATHER FORECAST AREAS - ZONES DE PREVISION





# APPENDIX

## LIST OF TERMS USED IN MARINE WEATHER BROADCASTS (ENGLISH, FRENCH AND SPANISH)

ENGLISH	FRANÇAIS	ESPAÑOL
1	2	3
List of terms used in weather bulletins for shipping	Liste des termes utilisés dans les bulletins météorologiques destinés à la navigation maritime	Lista de los términos usados en los boletines meteorológicos destinados a la navegación marítima
<u>Standards of time</u>	<u>Unité de temps</u>	<u>Unidades de tiempo</u>
Greenwich Mean Time (GMT)	Temps moyen de Greenwich (TMG)	Hora media de Greenwich (TMG)
Standard time	Temps universel	Hora universal
Zone time	Heure du fuseau	Hora del huso
Summer time	Heure d'été	Hora de verano
Local time	Heure locale	Hora local
<u>Periods of time</u>	<u>Périodes de temps</u>	<u>Períodos de tiempo</u>
six hours	six heures	seis horas
twelve hours	douze heures	doce horas
eighteen hours	dix-huit heures	diez y ocho horas
twenty-four hours	vingt-quatre heures	veinticuatro horas
thirty-six hours	trente-six heures	treinta y seis horas
forty-eight hours	quarante-huit heures	cuarenta y ocho horas
to-day	aujourd'hui	hoy
to-morrow	demain	mañana
next few days	les prochains jours	los próximos días
morning	matin	manana
evening	soir	tarde, noche
midday	midi	mediodía
afternoon	après-midi	tarde
day	jour	día
night	nuit	noche
sunrise	lever du soleil	salida del sol
sunset	coucher du soleil	puesta del sol

<u>Preliminary terms</u>	<u>Termes préliminaires</u>	<u>Términos preliminares</u>
Forecast	Prévision	Predicción
Further outloo	Evolution	Evolución probable ulterior probable
General statem	Situation généralen	Situación generalce
General infere	Prévision généralek	Predicción general
Long-range for	Prévision a longue é	Predicción a largo plazochéanceent
Medium-range forecast	Prévision moyenne	Predicción a plazo medio échéanceecast
Short-range forecast	Prévision à courte échéance	Predicción a corto plazo
Synoptic situation	Situation synoptique	Situación sinóptica
Warning	Avis	Aviso
<u>Terms of position</u>	<u>Termes de position</u>	<u>Términos de posición</u>
area	zone	área
bearing	relèvement	rumbo
degrees	degrés	grados
direction	direction	dirocción
district	distric	distritot
east	Est	este
hemisp	hémis	hemisferiophèrehere
latitude	latitud	latitude
line	ligne	línes
longitu	longitu	longituddede
meridia	méridi	meridianoenn
north	Nord	norte
parallel	parallè	paralelole
quadran	quadra	cuadrantentt
south	Sud	sur
square	carré	cuadro, cuadricula
track	trajet	trayectoria
west	Ouest	oeste
<u>Storm Warnings</u>	<u>Avis de tem</u>	<u>Avisos de temporalesmpete</u>
blizzard	blizzard	blizzard
gale warning	avis de.coup de vent	aviso de viento duro
hurricane warn	avis d'ouragani	aviso de huracánnng
storm warning	avis de tempête	aviso de temporal
<u>Tropical storm</u>	<u>Cyclones tropicauxs</u>	<u>Cyclones tropicales</u>
baguio	baguio	baguio
hurricane	ouragan	huracán
tornado	tornade	tornado
tropical cyclone	cyclone tropical	cición tropical
typhoon	typhon	tifón
Willy-Willy	Willy-Willy	Willy-Willy